

SUPSI

Swiss BiPV Competence Centre



“ Greeting to the Sun “

Istarska obala, Zadar (Croatia)

Building Details

CONTACTS	Name	Website (or e-mail)
Owner	Grad Zadar city	www.grad-zadar.hr
Architect	Nikola Basic d.i.a.	-
Energy Consultant	Sergej Skocic d.i.el. (light)	-
PV Installer	Zelimir Ivanovic d.i.el.	-

BUILDING

Completion year	Building	2008	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 checked="" type="checkbox"/> Urban	<input type="checkbox"/> Historical	<input type="checkbox"/> Other

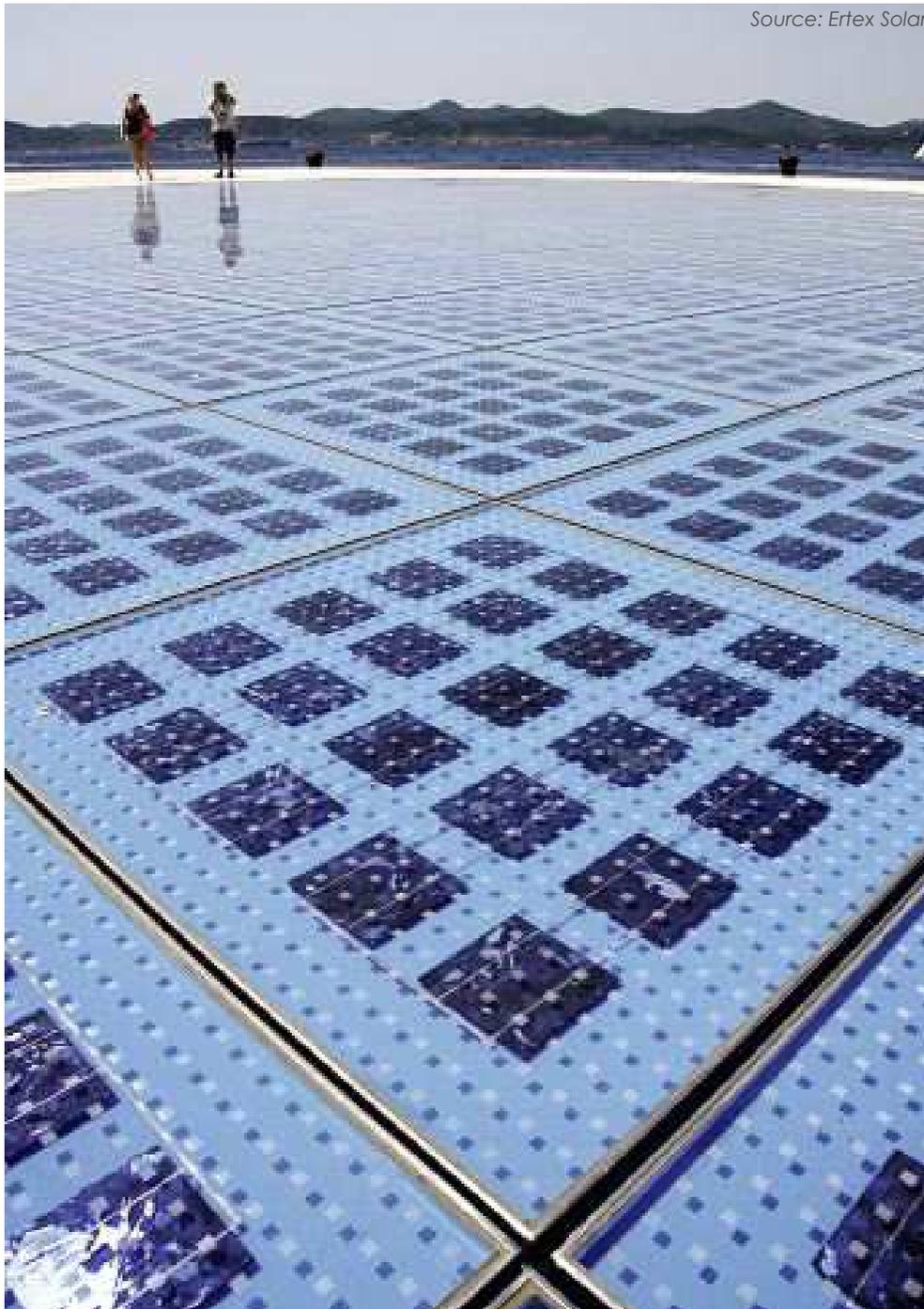
Building Energy Performance kWh/m²y

Description

This urban intervention realized on the coast of Zadar (Croatia) is called “ Greeting to the Sun “. It is a sophisticated and original installation consisting in a glazed interactive floor: 300 PV plates, that create a circular area of 22.5 m diameter (fixed in the stone sidewalk of the promenade), are completely walkable and have a grid of 10,000 light points underneath. The energy produced during the day is used to create a dynamic light spectacle during the night. Each single light bulbs has a varying intensity and different color induced by a computer for creating sensations, send messages, form graphemes, write words, etc. The energy produced by PV is used for the general illumination of the promenade. The project is a unique example of connection of renewable energy, energy efficiency and development of a city area.

Acknowledgments

Source: Ertex Solar



BiPV Details

LOCATION OF PLANT

Roof	Flat roof	Sloped	Curved	Floor
Façade	Cladding	Balcony	Greenhouse	Curved
Glass	Façade	Roof	Solar shading	Canopy
Orientation	South	West	East	North
BiPV System	PV plates installed in a walkable urban space.			

ARCHITECTURAL EVALUATION

Color	Black
Transparency	Opaque
Frame	Metal frame

COSTUMIZATION LANGUAGE AT COMPONENT SCALE

PV CELL	MODULE LAYERING	MODULE FEATURES	DUMMIES
DESCRIPTION	Special walkable modules with special cut and dimensions; Substructure: AKS DOMA Solartechnik		

SPECIFICATION

Photovoltaic	Monocrystalline	Multicrystalline	Thin Film
PV Module	Cells	-	
	Module	328 VSG 6/12/12 walkable (max. 1.102 x 1.102 mm)	
Power	kWp	15	
Size	m²	380	
Energy production	kWh/year	46.500	
Cost	€/m²	-	