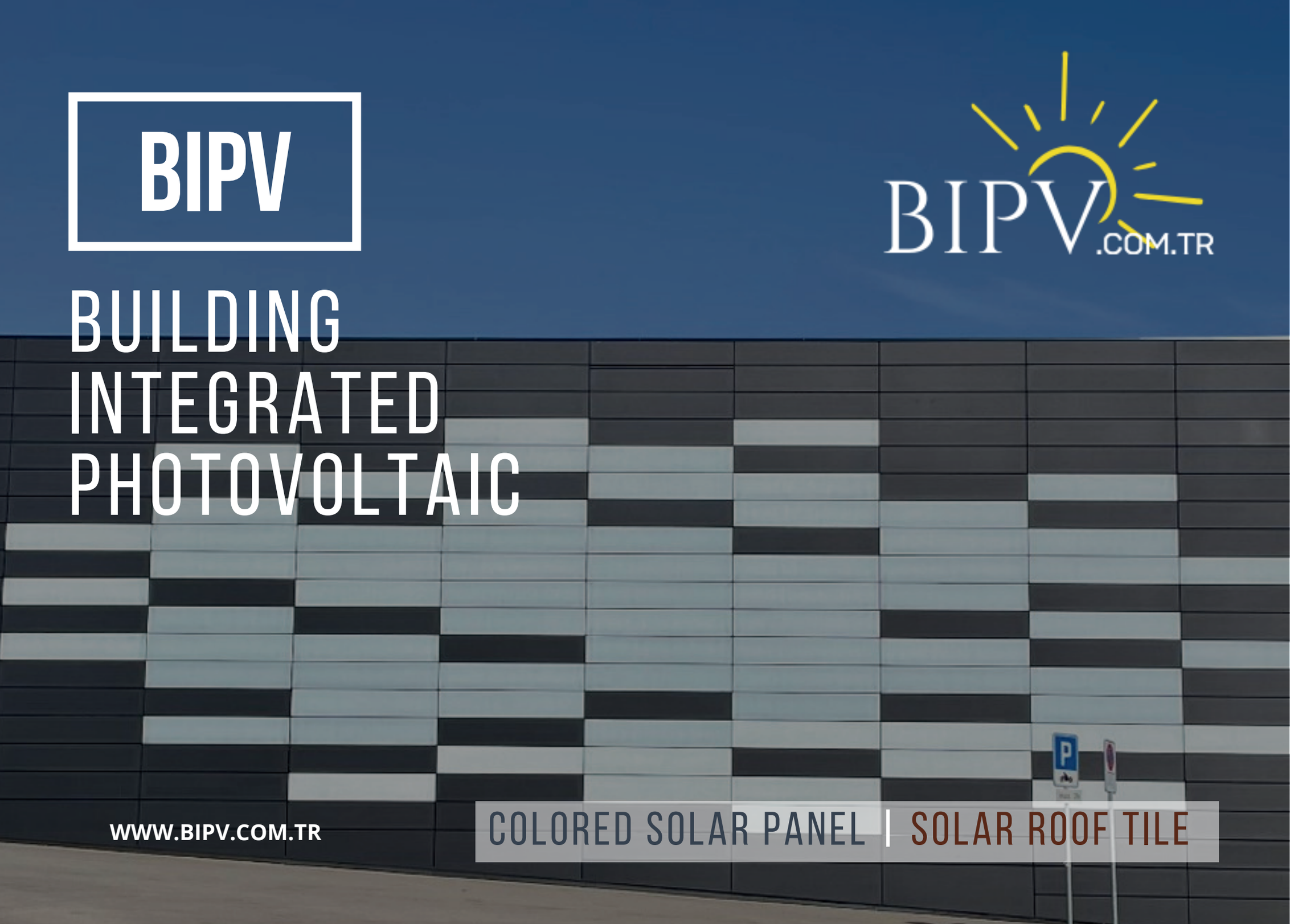

BIPV

BIPV.COM.TR

BUILDING INTEGRATED PHOTOVOLTAIC

WWW.BIPV.COM.TR

COLORED SOLAR PANEL | SOLAR ROOF TILE

BUILDING INTEGRATED PV (BIPV) VS. CONVENTIONAL SOLAR PANELS

Traditional solar panels are installed separately from primary building elements, often overlapping with existing materials and creating distinct entities and cost centers. In contrast, our photovoltaic glass integrates seamlessly into the building envelope, functioning as a primary component while generating clean energy. This integration can offset the cost of conventional construction materials.

ROOF TILES THAT POWER YOUR LIFE

YOUR ROOF DOES MORE THAN PROTECT, IT EMPOWERS.

Patented roof system with integrated solar panel

SUSTAINABLE STYLE:
ROOF TILES THAT POWER YOUR LIFE!

sandwich solar

Standart Size Model

SOLAR-ROOF-TILES 135W

Electrical data test conditions (STC)		
Nominal peak power	135	P_{mpp} (Wp)
Open-circuit voltage	12,59	V_{oc} (V)
Short-circuit current	12,88	I_{sc} (A)
Voltage at nominal power	10,78	V_{mpp} (V)
Current at nominal power	12,53	I_{mpp} (A)
Power tolerance	0 / +5	Wp
Module Efficiency	18,36	%
STC: Irradiance 1000W/m^2 , Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±5%;		
Mechanical description		
Width	425	mm
Height	1730	mm
Thickness	4,2	mm
Weight	8,5	Kg (±%5)
Cell type	10 BB	Monocrystalline Half-Cut
Number PV cells	36	pcs
Front Glass	3,20 mm	Tempered Glass Low-Iron
Back Cover		Tempered Glass or Backsheet
Frame		Without Frame
Roof		Patented roof system with integrated panel
Junction Box		
Protection	IP68	
Connector	MC4	Stäubli MC4-Evo 2
Wiring Section	4,0	mm^2
Cables	500	mm
Maximum system voltage	1500	V
Operating module temperature	-40…+85	°C
Warranty	10	Years
Lineer Performance Warranty	25	Years

INTERNATIONAL SOLAR ROOF TILES PATENT PROTCTED

Customizable in terms of size, shape, thickness, color, output power.

COLOUR TYPE 10+

- Available in Different Colors
- Aesthetic Integration in Buildings
- Durability and Longevity
- Electricity Generation Capacity
- Environmental Sustainability

ENHANCING GREEN BUILDING CERTIFICATION AND SUSTAINABILITY WITH BIPV

Building Integrated Photovoltaics (BIPV) play a pivotal role in advancing green building certification and sustainability. By seamlessly incorporating solar power-generating systems into architectural elements such as roofs, facades, and windows, BIPV offers a dual-functionality approach. This integration not only enhances the aesthetic appeal of buildings but also significantly reduces the carbon footprint by generating clean, renewable energy. As a result, buildings equipped with BIPV systems are better positioned to achieve green building certifications like LEED, BREEAM, and WELL, which recognize efforts to minimize environmental impact and promote energy efficiency.

Green building certification programs evaluate various aspects of a building's design, construction, and operation, with a strong emphasis on sustainability. BIPV systems contribute to several key criteria within these programs, including energy efficiency, renewable energy use, and reduced greenhouse gas emissions. By generating on-site renewable energy, BIPV reduces reliance on fossil fuels and lowers overall energy consumption.

Beyond certification, BIPV systems embody the principles of sustainability by promoting long-term environmental stewardship. They offer a practical solution to the growing demand for renewable energy sources while maintaining the integrity and functionality of building structures. BIPV reduces the need for conventional construction materials, lowering embodied energy and resource consumption.

BREEAM
WELL
LEED
HOME QUALITY MARK

BUILDING INTEGRATED PHOTOVOLTAIC | COLORED SOLAR PANEL | SOLAR ROOF TILE

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Patent Holder
Manufacturer

ANKARA® SOLAR

EUROPE'S LEADING COLORED SOLAR PANEL MANUFACTURER