# **MEDIA Q&As:**

# 1. What makes PLATIO different from other solar panels?

PLATIO solar paver is far more than a **solar panel**, this is a solar paver, that is a **new product category** within the PV sector. The solar paver is a solar building material that has an in-built solar panel but is meant to be placed on the ground. PLATIO functions as conventional solar panels, still we offer an aesthetic and space-saving solution for areas where conventional solar technologies cannot be deployed. OR it is suitable for those who prefer a more stylish energy-producing solar system, than rooftop solar panels.

PLATIO is an **innovative**, **design building material**, that not only generates clean energy due to the solar panel, but it is also environmentally friendly since its base/ frame is made of recycled plastic. It is considered a double-green product that provides renewable energy and recycles plastic waste.

Roofs are not the only surfaces that can be used for solar energy production. Paved areas absorb solar radiation all day long as well and the urban areas are covered with the unused pavement that could be used for generating energy. This was the concept of the founders. The walkable solar panels of PLATIO can utilize this new source of clean energy.

# **2.** How is PLATIO similar to conventional roof-mounted solar panels and how does it differ? PLATIO uses the same technology as normal solar panels, but in a more innovative way.

The first difference is the structure of PLATIO. It is designed for a heavier load. The maximum load of a conventional solar panel is around 5600 Pa, but PLATIO can resist up to 156 000 Pa.

The second: The efficiency of PLATIO highly depends on the location, but usually it is lower than the roof-mounted solar panels' due to the lower irradiation angle. This difference is maximum 10%. However, as we use microinverters the yield of PLATIO is higher: We use only 18 panels on one string, therefore the MPPT tracking is more accurate.

Thirdly, PLATIO is safer the normal solar systems. To protect consumers from electric shock, PLATIO uses SELV which is an extra-low voltage system. The maximum voltage is 120 V DC, so it's not dangerous at all when contacting with the human body, which is a big advantage in case of fire.

### 3. What are the benefits of PLATIO paver?

### Product benefits

- A space-saving solution: solar technology becomes part of the built environment without taking up valuable space
- **Recycled materials:** PLATIO contributes to creating a sustainable living environment and a greener future. To obtain value from waste, the frame of the PLATIO pavers is made from recycled plastic.
- Visibly green, aesthetic design: PLATIO improves the public image of your business and supports green CSR goals. Solar pavements transform any building into a landmark of architecture and sustainability.
- Low operational complexity: Simpler maintenance compared to regular roof-mounted solar panels.

# 4. What are the solutions PLATIO can offer?

PLATIO pavers can be a good option for providing clean energy for different parties.

### Residents

- Net zero goals with integrating energy-generating building materials and clean energy in the long run without compromising aesthetics
- Independent energy with off-grid solutions

### Corporate

- Investing in renewable energy instead of purchasing carbon credits
- Independence from the grid
- Cost-saving opportunity with renewable energy sources
- Become a pioneer of the industry / ahead of competitors

#### **Smart cities**

- Solar pavement in public places makes urban spaces valuable
- Support cities' energy supply with green energy
- generating local energy in urban spaces where the grid is not available or grid construction is expensive and complicated

### E-MOBILITY in focus – EU goals will rewrite E-mobility bringing the followings

- All new vehicles have zero-emission capability by 2035
- The current utility grid cannot provide enough electrical energy to supply the EV chargers sufficiently
- The number of charging stations must increase dramatically to cover the higher energy need of EVs
- Utility grid infrastructure development issues
- Environmental taxes and increasing electricity fares

The combination of PLATIO solar pavers with charging stations is a smart and innovative solution for EV owners and charging providers. Powering EVs with renewable energy is key to a sustainable future.

# 5. To whom do you recommend the solar pavers? Who are your customers? What are the usage areas of PLATIO? Where can the product be installed?

To answer the question briefly: there are no limits.

We offer PLATIO for those who wish to have an aesthetic and space-saving building solution that generates clean energy. It is also interesting for those who want to increase the ratio of renewables in the energy mix.

Solar pavers can be placed in areas where conventional solar technologies cannot be deployed. For example: when there is no free place on the roof for solar panels, PLATIO is a good solution.

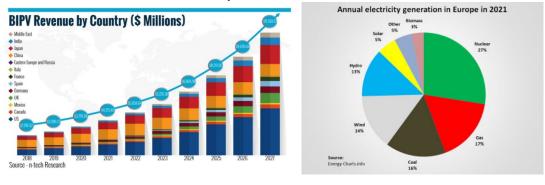
We can offer on-grid solutions to customers with high energy capacity, and off-grid solutions to low-performance consumers.

We are selling our solar pavers to private customers, as well as to corporate and governmental organizations. Based on our sales stats our most important customers are the real estate developers.

## 6. Where can you install PLATIO solar pavers?

**PLATIO** usage areas:

- residential (pavement, terraces, driveways),
- **public** (sidewalks, parks, bicycle roads, marinas, low traffic roads)
- **industrial** (office and other buildings, warehouses, rooftops)
- off-grid solutions: EV charging systems or outdoor utensils (smart bench, info, and outdoor ad screens).
- 7. We see our sector (BIPV) and the importance of renewable energies, carbon neutrality is a huge phenomenon that will highly affect not only the individuals but also the corporate, governmental world. How PLATIO can help here?



8. How does this product contribute to Sustainability & Carbon neutrality?

EU initiatives: carbon neutral by 2050, at least 40% renewable energy for buildings by 2030. PLATIO solar pavement offers a suitable solution for providing renewable energy for buildings and vehicles

### US TARGET: Greenhouse gas pollution reduction by 2030 and 2050. Carbon pollution-free economy.

The PLATIO Solar Pavement uses renewable energy and recycled materials to create a sustainable building material for outdoor walkable surfaces around buildings, homes, or public spaces.

Our goal is to make sustainable technologies part of modern architecture and pave the way to a **SUSTAINABLE future.** Residents, companies even municipalities can produce their own green energy without compromising aesthetics.

- Net-zero emission phenomenon: Net Zero Building: Governmental and residential attempts to reduce CO2 emissions globally to stop global warming.
- How PLATIO can contribute: Homes, companies, and even municipalities can increase the green energy in their energy mix by integrating a sustainable and energy-producing building material that supplies clean energy to the households and buildings.
- It is suitable for new buildings and can be used for existing buildings.

# 9. How does PLATIO contribute to energy independence?

With the energy price increase and the growing energy consumption, the importance of energy independence is strengthening worldwide.

- PLATIO's Off-grid solutions provide the possibility to be independent of the grid
- Easier administration and installation of PLATIO solar solution compared to bringing wires from the grid.
- The energy can be stored with a battery, so suitable for residents as well
- Existing solutions (eg. Solar charging station for lawn mower, E-bike, E-scooter)
- Hurricane-struck regions: off-grid energy is essential which makes PLATIO a valid solution.

# **10.** Details about the efficiency of PLATIO. How much energy it can create and how can that energy be used? How many panels are necessary to create that energy?

Key facts:

- 1 m2 8 pcs of PLATIO
- 1 m2 cc. **1 kg plastic waste recycled!**
- 1 m2 140-170 Wp (exact number depends on the location)
- 1 m2 PLATIO IN YEAR equals to 55kg CO2 emission saved in US (1 YEAR)

# **11.** How do you maintain the PLATIO pavers? How can you clean them?

No special maintenance of PLATIO is required, that was an important aspect during development. Of course, to reach maximum efficiency keeping the panels clean is recommended, just like with conventional solar panels. The cleaning process depends on the type of contamination, but mostly a high

# **12.** What is the guarantee for the product?

We provide 5 years of warranty for our product in case of intended use. And we also provide 25 years performance guarantee for solar cells.

# 13. How do you install a solar paver? What professionals are needed?

The installation can be divided into 3 different steps:

- electrical engineering to design the pattern of the paving and the connection to the grid or the off-grid system
- paving installation prepare the foundation and install the tiles on it. During paving, the bricket layer must connect the PLATIO units to each other as well.
- electrical system installation usually it is implemented by an electrician, but it really depends on the local standards and laws. In this process, the PLATIO strings are connected to the charge controllers or to the inverters. In the case of installing an on-grid system, approval from the local energy supplier is also needed.

Installations are carried out by our certified personnel and organized by the local reseller partner.

### 14. How can PLATIO paver be used for EV charging?

The PLATIO Solar pavement connected with charging stations provides a smart, space-saving and local power source to back up the grid and contribute to cleaner e-mobility.

It becomes possible to expand the charging station network and establish charging points near shopping centers or public areas by using the energy generated by the pavers. The PLATIO Solar

Pavement system can be connected to the home EV charging station as well. This provides actual clean energy for your electric car directly or through a battery system.

30 m2 PLATIO paver installation produces enough energy that an electric vehicle can drive 40-50 km with it. In the summertime, more energy is produced.

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EV Charger system configuration:

- 1. The clean energy is generated by the PLATIO Solar Pavement.
- 2. This DC electricity is inverted into AC and fed to the power network.
- 3. The electricity is stored in the battery pack driven by the charge controller.
- 4. The battery pack ensured a reliable power source for the charging station.

#### 15. What are some of the success stories of the company with this product? Happy customer stories?

- <u>Residential</u> references (eg. Rooftop Amsterdam, Yukatel, Budapest),
- <u>Corporate</u> installations (Graphisoft park, Volvo, office buildings),
- <u>Public</u> places, eg. the first solar square of Austria with Vienna university, the first solar bike lane in Switzerland, playground in Budapest.
- <u>E-mobility</u> installations: (Barcelona EV charging stations, Budapest E-car charging).
- <u>Smart city</u> solutions with smart bench and lightening.

Performance examples: Yukatel – Germany **40 m2** (530 kWh – 2022 May), Teersdorf – Austria **100m2** (1,2MWh - 2022 May so far).