

Kenotomi

Illan Aharon
Founder & Joint CEO

Welcome to the Solar Revolution

We are Kenotomi



BIPV

BIPV (Building-integrated photovoltaic)

The rising awareness regarding green infrastructure, including buildings with energy efficiency, is expected to boost the demand for building-integrated photovoltaics (BIPV). BIPV provides a sustainable and effective solution for enhancing the energy efficiency of the structure, retrofitting the exterior of the structure, and providing significant savings in conventional power consumption.

These are expensive products, both to purchase and to install, they show great harvesting inefficiency (only 15-18%, given perfect laboratory conditions)



BIPV



Once located, some cell structures tend to shade each other – further lowering the structure efficiency.



These solutions cannot optimally utilize space, as they must allow some light into the building and thus are spaced accordingly.

Main problems



Vertical Solar panels and BIPVs provide low solar efficiency because they cannot hold an optimal angle in front of the sun throughout the day.



The solar cells block the light from coming through, as they are very large and completely dark. Therefore, to allow light to come through, the panels must be installed with spaces between the cells, further lowering their already-low efficiency...

The solution?
Kenotomi



The solution? Kenotomi



World patented, the Kenotomi's solution disregards traditional patterns and turns to the sun for answers; Using complex, top-of-the line prismatic geometry, our solution allows both smooth lighting and supreme solar efficiency.



How does it work?

Our patented prismatic solution acts as a sun-ray-catalysator, deflecting the ray's original direction towards the attached solar-cell. This action grants permission for many sun rays to enter and provide soft, natural light, **while converting up to 20%** of the light into solar energy. Yet, the same efficiency you would see in a standard, room-darkening solar panel, with the benefit of bringing light in through the windows, walls, ceiling and skylights.



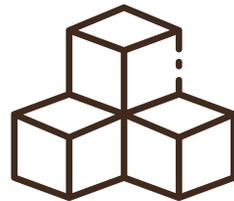
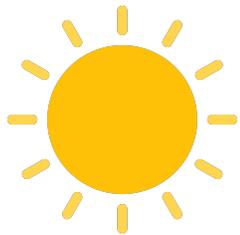
Wait... There's more!

As our product is prism-based, the original light direction matters very little, and so a BIPV with our technology can generate energy all throughout the day, in all sunlight hours!

On the technical side...

The invention is based on the principle of the diffraction of solar rays through a prismatic Panel (configuration similar to an optical retro reflector), which concentrates the diffused light into one of the surfaces where a usual solar cell is positioned in order to convert the solar energy into electricity.

Solar energy is then reflected to the solar cell, by two (orthogonally oriented to each other and the relevant solar cell) transparent refractive elements, shaped similarly to retroreflector.



Let's recap

Our patent-pending technology allows:

- ▶ Up to 20% efficiency in converting sunlight into usable energy

- ▶ Non-shading solution, covering 100% of the wall, ceiling, window or skylight

- ▶ Incredibly large sun-harvesting angle, allows photovoltaic energy harvesting to occur during most of the light hours

- ▶ Durable, easy to install and remove

- ▶ Cost-effective

- ▶ One-of-a-kind



Goals and Objectives

Kenotomi plans to disrupt the solar industry

Just as Tesla did to the e-car industry:



▶ Effortless wall-shading for offices, shopping malls and industrial areas, allowing self-efficient buildings, which require less lighting and much less outsourced electricity during daytime



▶ Government funded solar projects for schools, hospitals and other public institutions



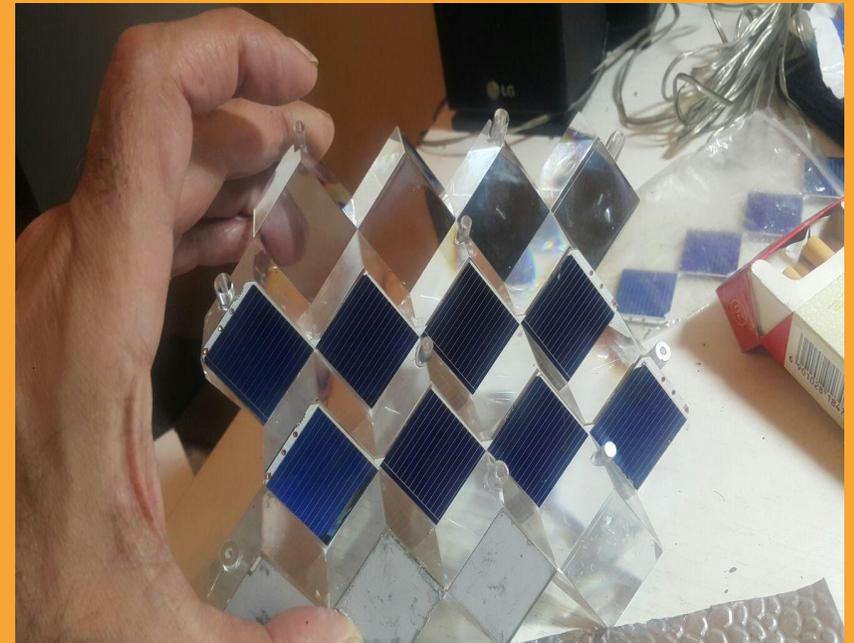
▶ Gigantic solar skylights to create self-powered mega-stadiums (Football, Soccer etc)



▶ Smart-windows, connected to the smart-house WiFi, controlling the amount of light

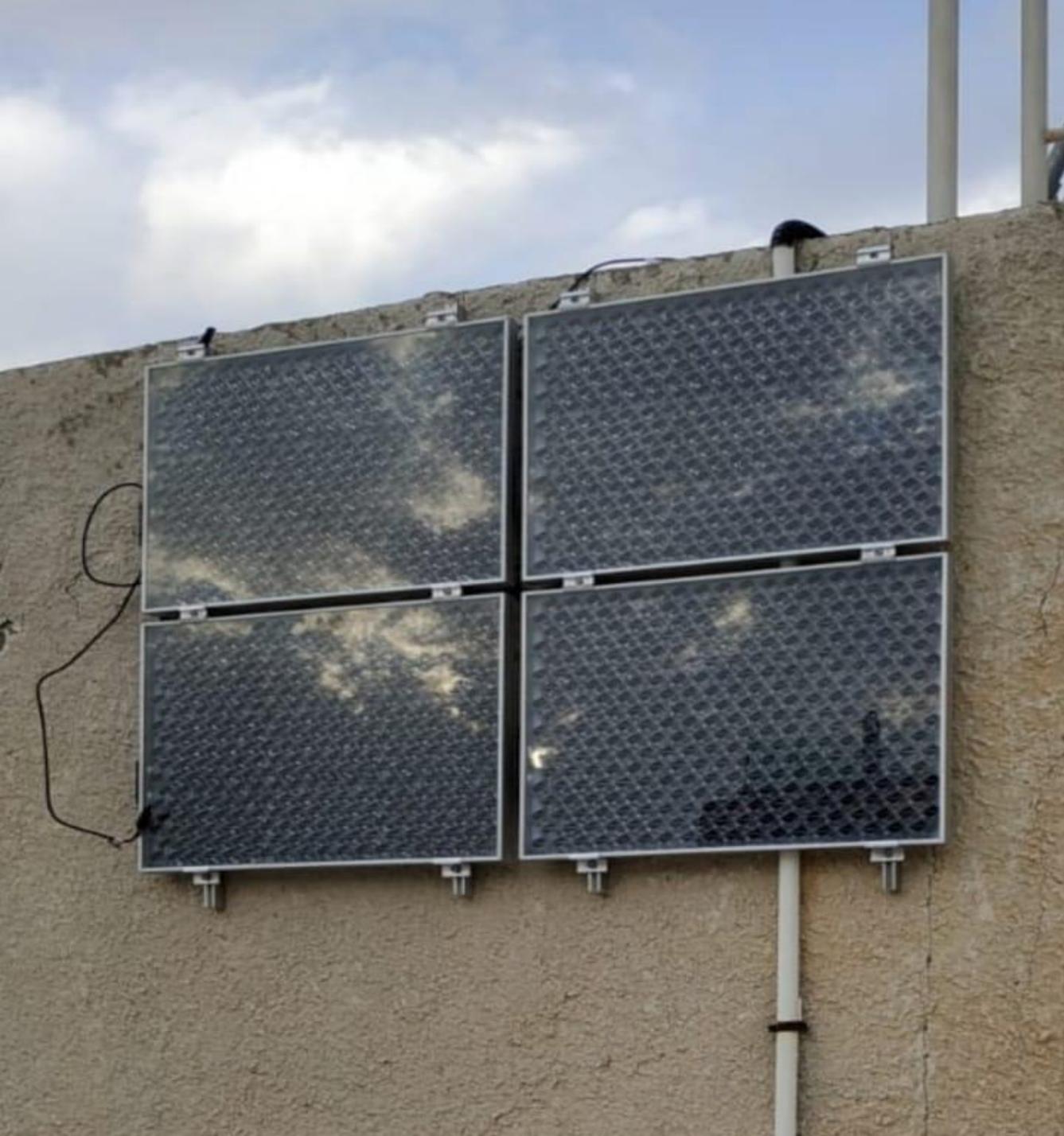


▶ Agriculture – for the first time, farmers could benefit from both sunlight for the plants and electricity from the field, without having to relinquish one over the other.





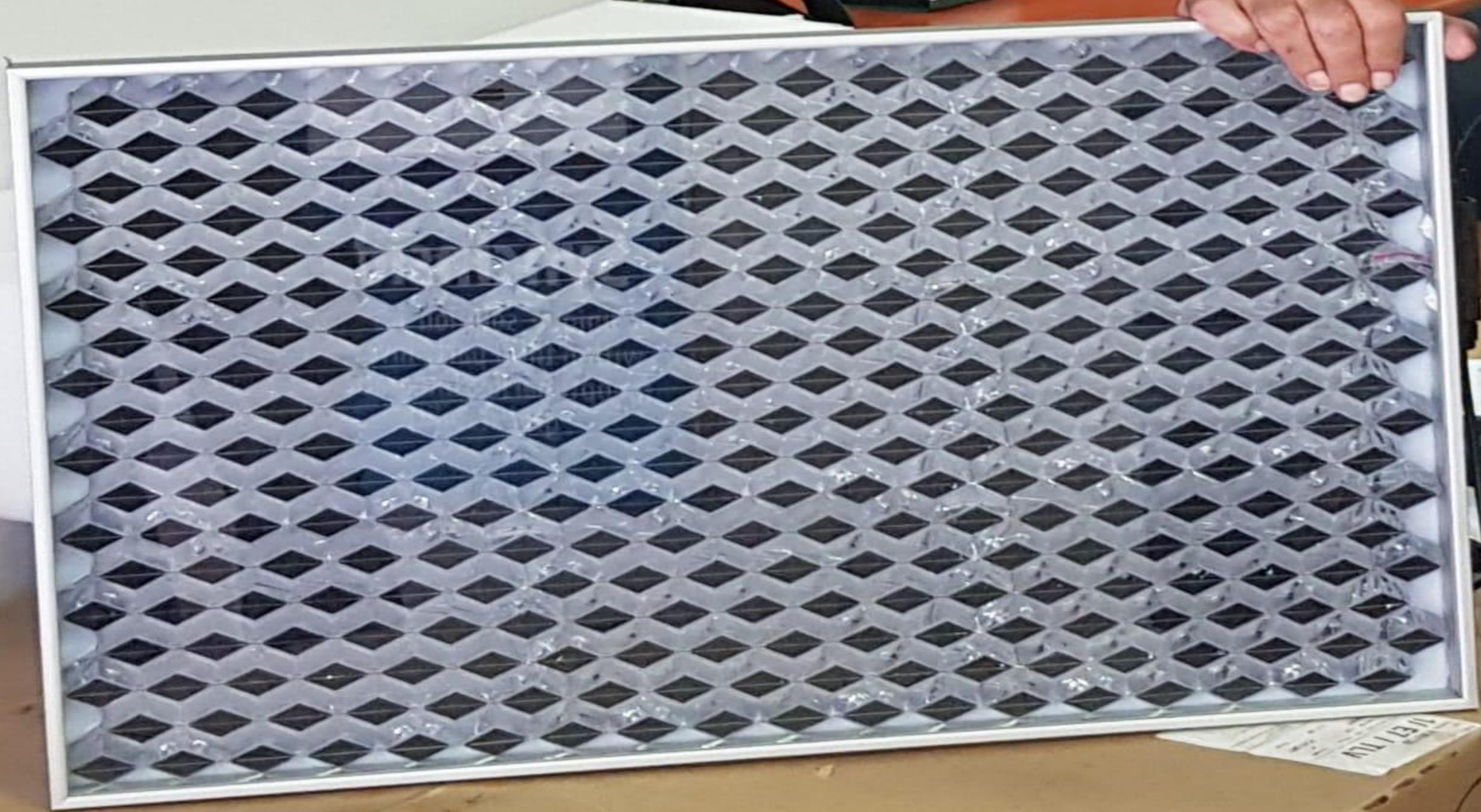


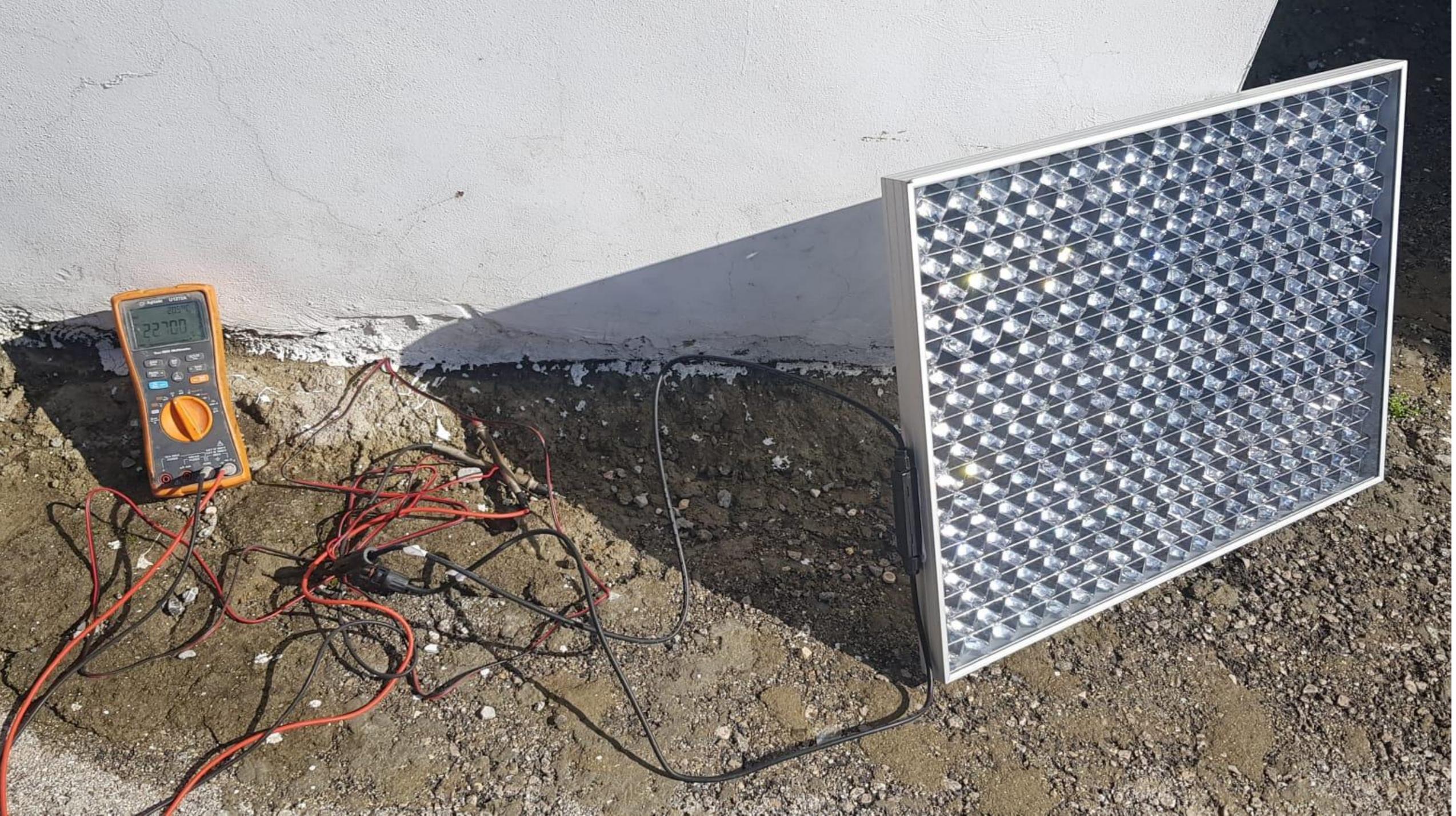




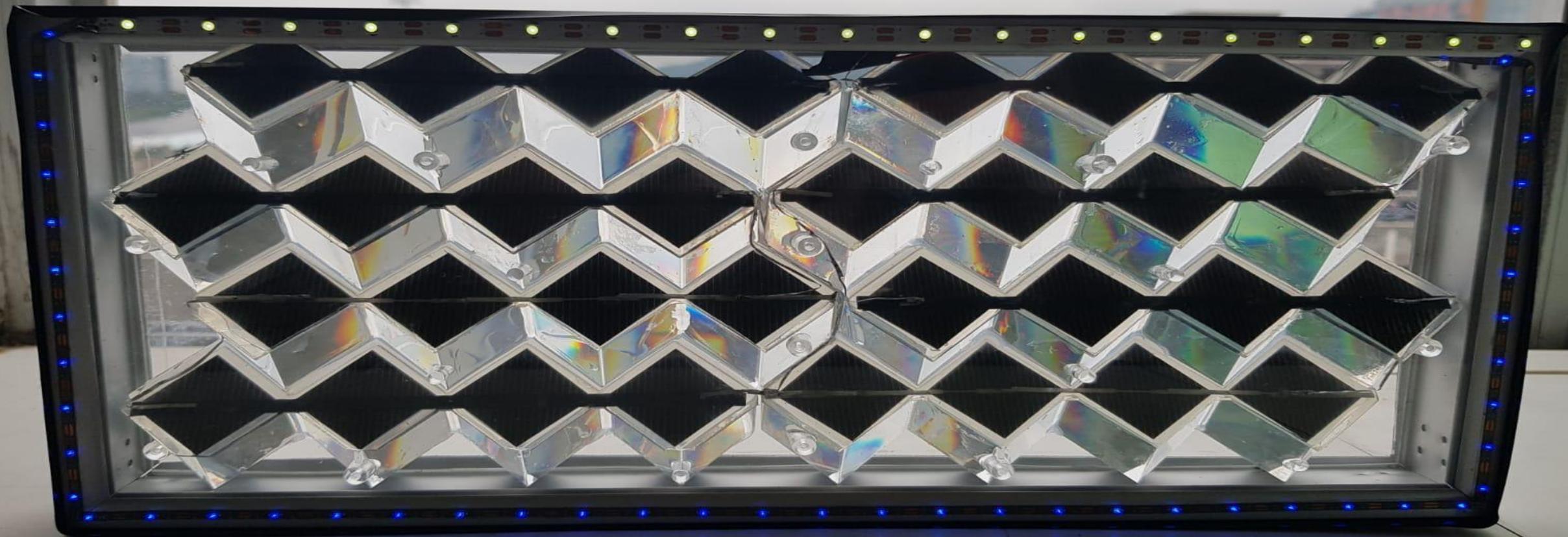
RENEWY













Contact us

Here are ways we can be in touch:



PHONE



EMAIL



FAX



OFFICE



See you soon
Under the sun!