



Light harvesting glass for solar panel

Domain: Others / Cleantech

An innovative light redirecting transparent glass for solar panels that increases the efficiency of energy generation by 20%. Similar to a sunflower tracking the sun - the glass tracks the sun in a motion free manner. Transparent solar panels enables cultivation of diverse crops beneath the panels.

Value Proposition:

- Innovative light redirecting technology with no additional maintenance cost
- Transparent panel increases efficiency of light penetration beneath the panels therefore, preferred for agrivoltaic system
- In agriculture fields enables diverse crop cultivation with increased yield and reduced water utilization
- 20% increased efficiency in energy production compared to conventional solar panels
- AI/ML powered remote monitoring solution detects faults in advance

Applications: Can be used as the replacement of conventional solar panels.

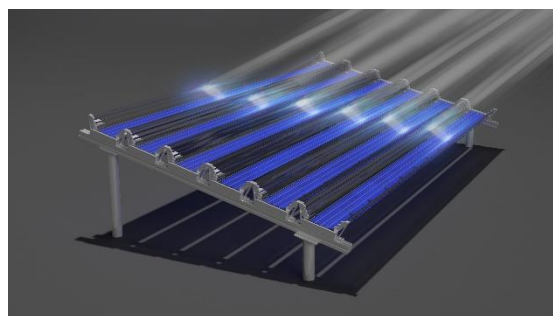
- Residential
- Commercial
- Industrial
- Agriculture
- Solar carports

Technology Status: Validated rooftop model. Agrivoltaic pilot project (10 kW) with PJTSAU for groundnut is in progress.

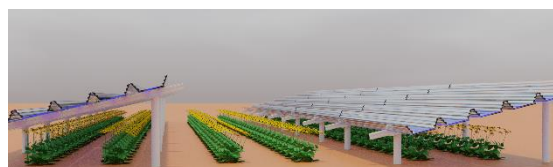
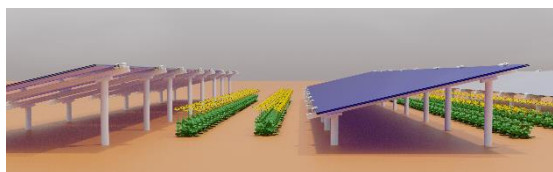
IP Status: Indian patent and PCT filed.

Market Potential:

Globally the solar rooftop market is estimated to rise at CAGR of 20.57% through 2028.



Motion Free Optical Tracking increases the efficiency of solar PV panels by 20% without operational overheads.



Increased land availability for farming.

Requirements: Seeking industry partner for pilot study and deployment