



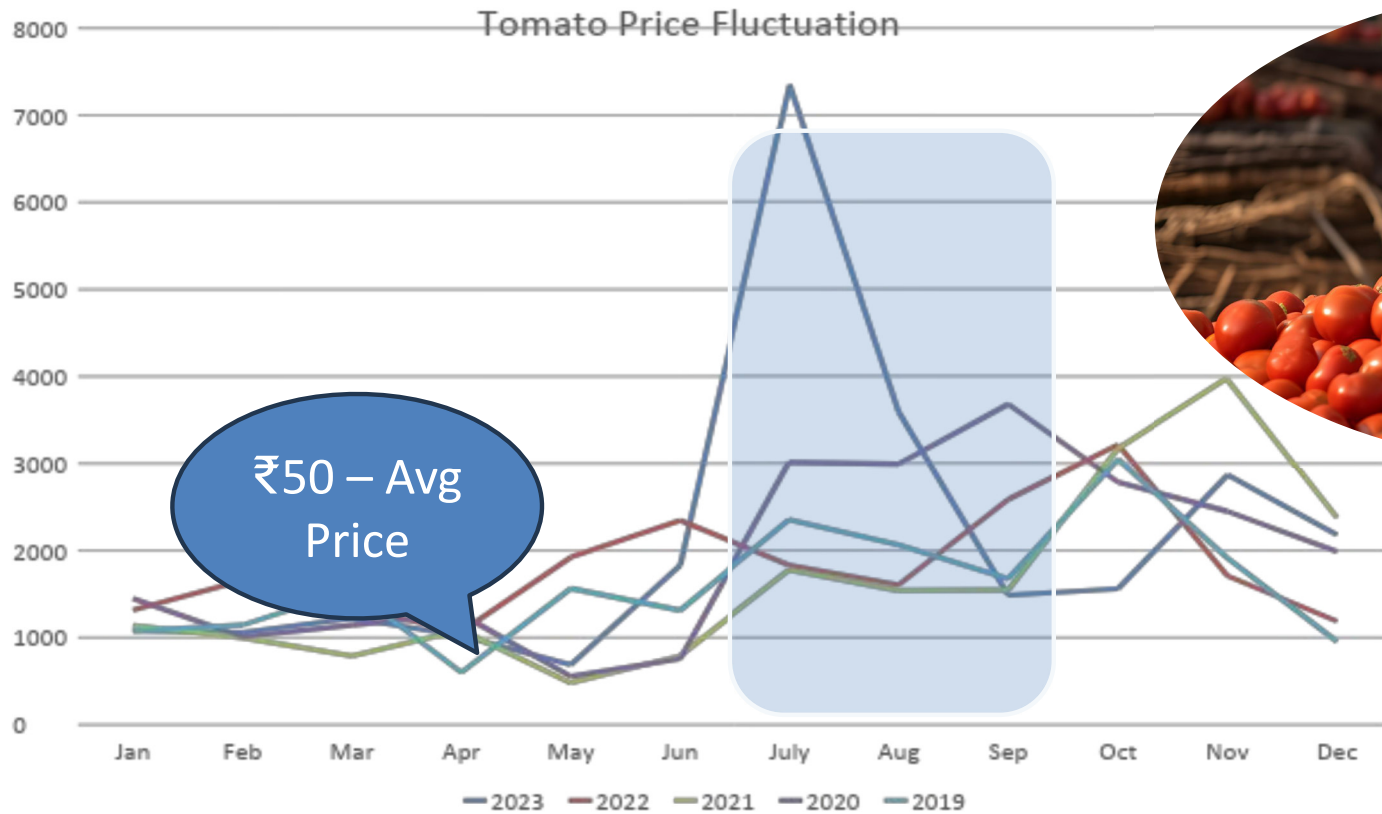
Paving Way to a Carbon
Neutral World

Climate Resilient AgriPV

Balaji B L, CEO

Dr. Lakshmi Santhanam, COO

Tomato - Highest Price ₹250/kg



- ☐ Summer Heat
- ☐ March – May
- ☐ Climate Change – 0.5 Million Tons/Month Loss

Agri PV – Semi Transparent Panels (2022)



100% Agriculture

100% Solar

95% Crop Yield

Rabi '23

- Carrot (98%)
- Beans (96%)
- Groundnut (90%)
- Cabbage (99%)
- Broccoli (98%)

Summer '23

- Palak (104%)
- Amaranthus(102%)
- Black gram (84%)
- Green gram (92%)

Kharif '23

- Tomato (107%)
- Maize (102%)
- Cotton (98%)
- Chilli (106%)
- Brinjal (100%)

Rabi '24 (95%)

- Carrot
- Beans
- Groundnut
- Cabbage

Summer – '23 Crop Yield



Palak
104%



Amaranthus
102%



Black Gram
84%



Green Gram
92%

Rabi – '23 Crop Yield



Tomato
107%



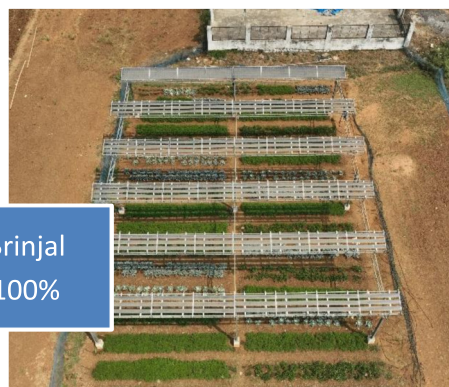
Maize
102%



Cotton
98%



Chilli
106%



Brinjal
100%

Agri PV – Elevated (2025)



100% Agriculture

100% Solar

BAIF, Pune

Solution - Higher Energy & Agri Friendly

Worlds First
- Motion Free Optical Tracking
Technology



Higher Energy Yield: 40-60%

Low Maintenance

Reflector Lifetime: 100 years

Agriculture Yield: 95%

- ☐ 40-60% higher energy yield enabled by our **Patented Glass Design**
- ☐ Guarantees 95% crop yield for all tropical crops
- ☐ Pilot – Axis Energy, Anantapur, Telangana
- ☐ Land, Financial and Ground team help from Axis Energy

Design Factor – 95% Crop Yield



50% – Solid Shadow

PAR < 400

6 Hrs of Shadow



700 $\mu\text{mol/s}$

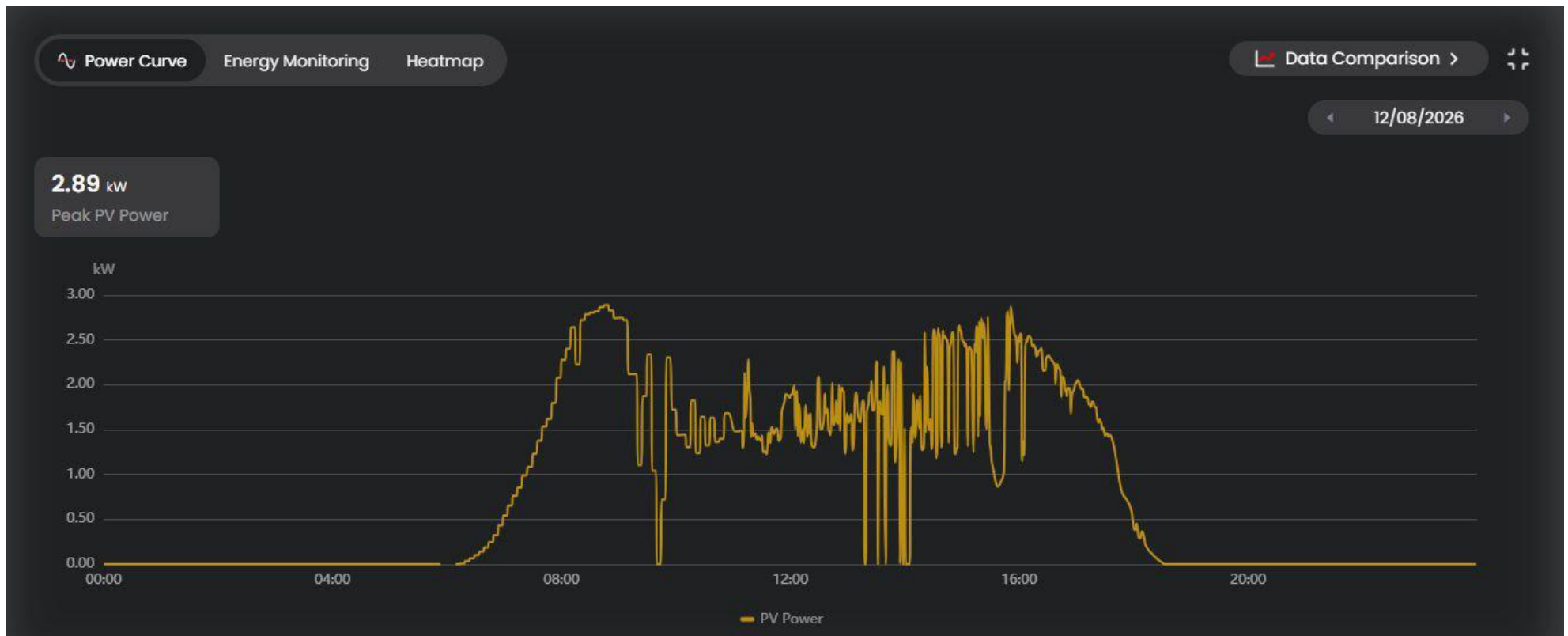
0% – Solid Shadow

PAR 500-1148

3-4 Hrs of Sunshine

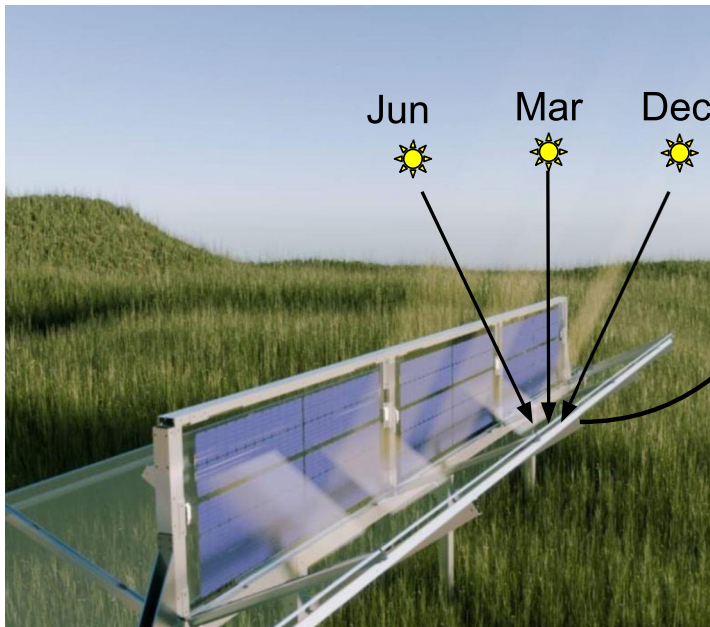
Axis Energy Pilot

12th Aug 2026 – 19.4 Units (5.2 Units/KWP)



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Intellectual Property - Reflectors



Renkube Panels with Reflectors

Reflector Groves



Patent (On Reflector)

- USA (**Granted**)
- Europe
- China
- India (**Granted**)
- Australia

US20230144992A1 - A light redirecting prism, a redirecting prismatic wall and a solar panel incorporating the same

- ❑ Renkube's reflector groove design created using topology optimization algorithms redirects sunlight onto vertical solar panels.

Energy Comparison

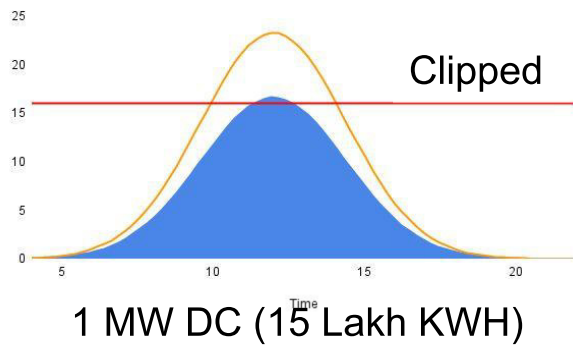
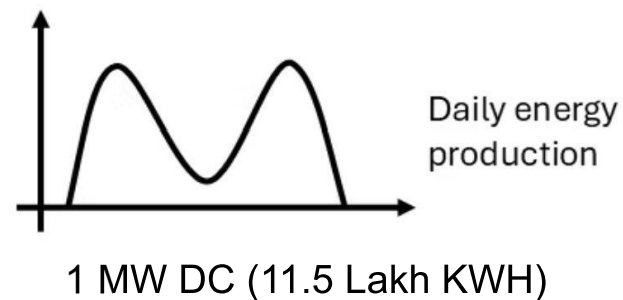
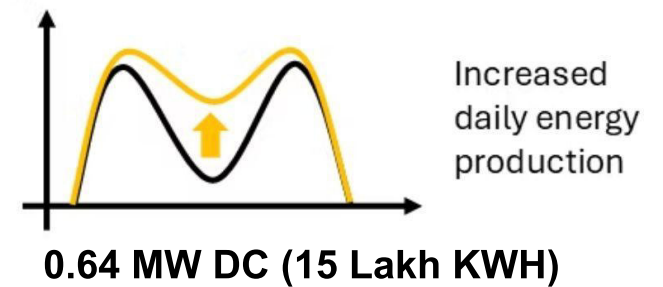
South facing



E-W Vertical



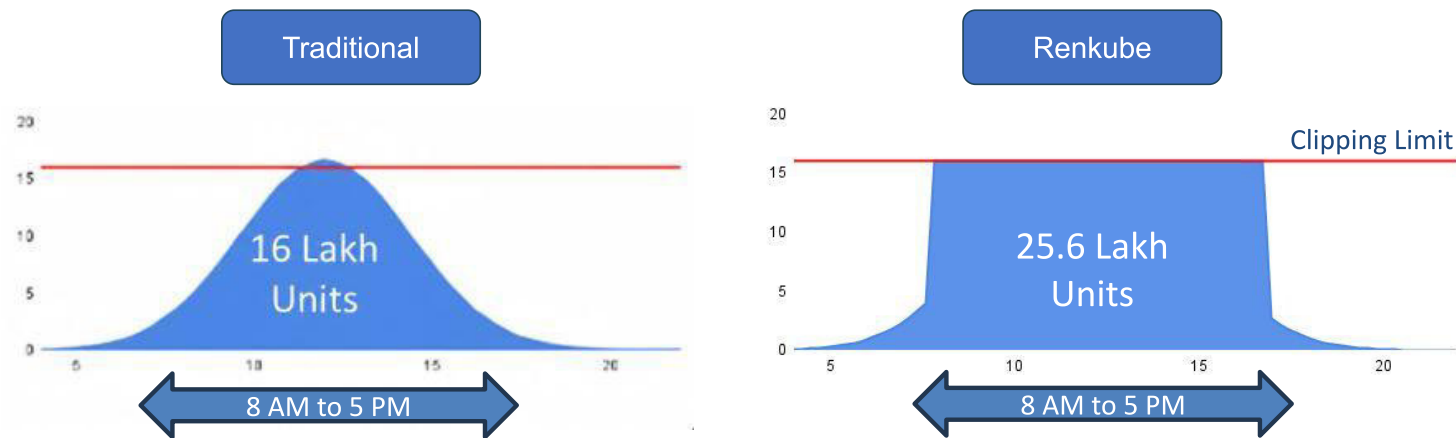
E-W Renkuba



Energy Yield Comparison



APV - 1 MW



Time	Irradiation Type	Higher Energy Generation - Reason
8 to 10 AM	Direct sunlight	East side of the panel is directly facing the sun and hence Peak Power
10 to 3 PM	Reflected light from Reflectors	Grooves to enable TIR which works across 365 days and hence constant Peak Power
3 to 5 PM	Direct sunlight	West side of the panel is directly facing the sun and hence Peak Power

Value Proposition



Capital Cost (1MW) 3.6 Cr

10% CAPEX reduction

Agri Crop Yield 95%

Testimonial - Thematic Program Executive, BAIF (A leading Agri Foundation)
- “Only solar panel promising 95% crop yield”

Team



Balaji B L

Founder, CEO

13 USTO Granted
Design & Development
25 Yrs Exp (Ex-Cisco)



**Dr. Lakshmi
Santhanam**

(Univ of Cincinnati, USA)

Co-Founder, COO

15+ IEEE Publication
18 Yrs Exp (Ex-Cisco, Intel)

Advisors



[Dr. Kalpana Shastry](#)
Ex-Director – Aghub
Fulbright Scholar
Agri Expert



[Rajesh Manapat](#)
COO, Arka Energy
Series A - \$7M funded



[Ms Mirnalini Chellappan](#)
Director, Swelect Energy (Tier 1 PV
Manufacturer)
\$73 M - Revenue