GRO SOLAR
ENERGY

Gro Solar Energy Pvt Ltd

Site : At : Deagon
Taluka : Sindakhede
District : Dhule
Maharashtra India

Project designed to do Agri. & Solar together under real commercial conditions

Gulabsing Girase
Director 22.10.2026

Five + years at Gro Solar Degaon: an evolving landscape

FEB 2021 · SITE DEVELOPMENT

October 2026 · OPERATING SITE

A height-pitch-cost-land-development trade off : simple basic fixed-tilt design for panels and crops to share Sun & Land

- 10 MWp DC / 7 MW AC. CUF Declared 25.91 (24). COD June 2021.
- PPA, Offtake: Mahagenco / MSEDCL through 11 kV agricultural feeders. Project Under GoM's MSKVY 1.0 to experiment with Agri.-PV
- 14.5 million units annual average. ₹3.10/kWh- MERC-approved tariff.
- 52 acres Project owned undulated and not so fertile land in drought region
- 2.2 to 2.5 meters – Structure Height – Fixed Tilt, 9.5 meter – Pitch. Designed all along the contours

- Solar is revenue base; agriculture adds resilience & live experimenting, learning, adapting platform
- ₹38 crore - Project cost. Project finance by PFC. Now refinaced by a Bank.

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17 + Crops tried. Intercropping. Crops Ranging from Floriculture to seed production. Lessons learnt. Now from cultivation to value-added products

Lemongrass → distillation → essential oil

Moringa Cultivation → drying → powder

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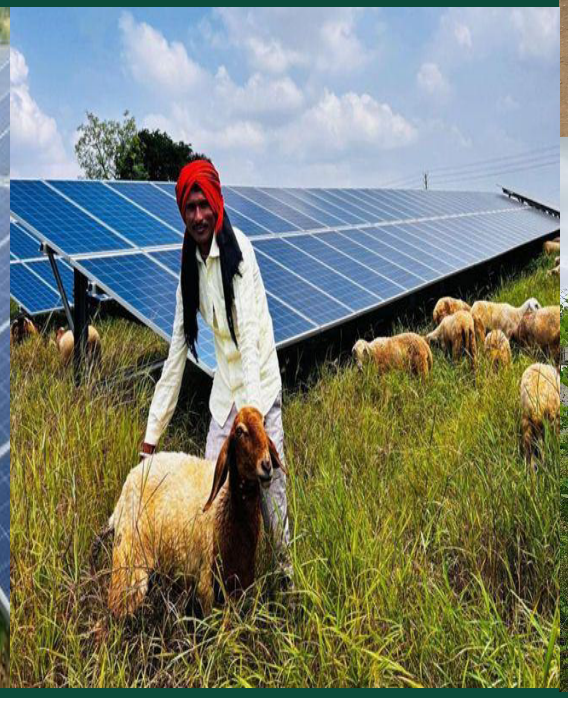
Perennials – Building Long Term Value

2000 Lemon Trees –expecting full yield this year

4000 Karonda plants – Testing Market

Impact Beyond Crops and Electricity

- Assured Daytime power for irrigation in 6 Villages
- 15,000 Person-days Average Employment Annually
- 500+ Farmers visited for training, knowledge sharing
- 500+ Engineering and agriculture students site visits
- Sheep grazing on mutual needs basis
- 40830 total CoUs registered with UCR till Dec. 2024



An operating foundation, open field-learning platform with AgriVoltaics evidence, endurance, strategic partners etc..

- Evidence: 5+ years' Operational stability, Solar revenue stability for debt servicing + O and M – winning trust of investors and bankers
- Playbook : Shadow & contour led placement of Seasonal – Semi Perennial & Perennial in shaded - partially shaded - unshaded areas. Hero-crop selection and field-to-product pathways. Market Linkages. Tie ups with FPOs, Farmers.
- Knowledge Partners & Technical support: IAA, Our Advisory Board: Dr. Santra (CAZRI), Dr. Solanki (Energy Swaraj), Dr. Pawar Ex. MPKV, IIT Mandi Dr Powar &Adi, CIMAP… Strategic Partners: Syngenta Foundation. BAIF. Nirmal Seeds. Local Agri.&Engi. Colleges…
- Integration pathways – BESS. EV integration. Post harvest processing. Cold Storage. Rural livelihoods. Water efficiency. Biomass circularity. Biochar. Registration under Better carbon credit standards. Micro grids.

Now

What we have so far:

- Commercial operating experience with social & environmental bias
- Practical solar & agri. Design learning
- Crop trials, including failures & adaptations
- A real asset for demonstration and learning

Next

What we want to do next :

- Codify evidence into replicable approach with research tie ups
- Build further right partnerships and business models
- Design around agricultural and local energy demand
- Build the professional organization to deliver at scale
- Adapt upcoming technologies to make replicable models

As Agri.-PV gathers momentum we'll work in & as:

- Feeder Linked Agri.-PV Projects – will be building on & improving on our present model
- Farmers & FPO partnered projects: For land, energy , agri. Operations, processes & markets
- Developer led Agri.-PV parks – balancing : energy , crops, costs and capital
- Agri.-PV clusters & value chains – connect projects, aggregation, post harvest handling processing & markets
- As developers, advisors, consultants, trainers and handholding supporters

Agri.-PV is Green and Blue but not Rosy -
Challenges we faced, have been facing & will continue face

- Labour issues – availability, safety and productivity.
- Water – Energy availability and costs.
- Farm machinery compatibility.
- Marketing the produce with reasonable margins – farming and farmers distress.
- Policy & financing models for farmers, FPOs, MSMEs, corporates, PSUs.
- Linkages between research, extension and practitioners

Agri.-PV is Green and Blue but not Rosy - Challenges we faced, have been facing & will continue face

- Policies and standards : Expected Soon
- Design, panels, structures, cables & technologies.
- Availability of suitable land & water.
- Connectivity, grid availability, Heavy start up power Discom bills against fixed tariffs. , Deemed generation, Payment issues.
- Thefts, safety, security and insurance.
- Lack of Incentives and financing.

Thank You

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POWER AWARDS 2026
Gro Solar Energy Pvt Ltd.
WINNER

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CERTIFICATE OF EXCELLENCE
This certificate is proudly presented to
BHARATH JAIRAJ

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Thank You

Gulabsing Girase : 9820914555: GJGIRASE@GMAILCOM grosolar24@gmail.com