



GREEN COIN COMMUNITY PROGRAM

TRAILBLAZING INDIA'S GROWING RENEWABLE ENERGY SECTOR

Fuse Code Solutions is a Uttarakhand-based renewable energy company focused on engineering-driven, transparent, and ethical clean energy solutions. We help clients navigate regulatory complexity, ROI clarity, and performance reliability as India rapidly expands its solar capacity.

We offer customised solar EPC solutions across residential, commercial, industrial, and utility-scale segments — C&I solar, distributed energy, hybrid & off-grid, and multi-MW solar park development. A key innovation is **agrivoltaics** — combining solar generation with agricultural land for dual-purpose benefits.

"A key area of innovation is **agrivoltaics** — combining solar generation with agricultural land use for dual-purpose benefits."

- Solar EPC
- Agrivoltaics
- Energy Storage
- Smart Monitoring
- Natural Farming
- Carbon Credits
- Green Coin
- Community Income

Our vision: India's most trusted renewable energy partner — delivering smarter, greener, and future-ready energy solutions.

240 kW PILOT CAPACITY	3,06,400 KWH / YEAR	₹27.5L YEAR 1 REVENUE	+113% FARMER INCOME	245 T CO ₂ SAVED / YR	6 Yrs PAYBACK PERIOD	16.7% PROJECT IRR	10,000 GREEN COINS
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SITE DETAILS

Land Owner	Vijay Singh
Location	Udalt, Pauri, Pauri Garhwal, Uttarakhand
Coordinates	30.019232° N, 78.819658° E
Land Area	34 Nali / 4.25 Bigha / 1.06 Acres (3603 sq.m)
Substation	8 km from site
Soil Type	Loamy
Water Source	Naulas (Natural Springs), Dharas (Perennial Streams)

SYSTEM SPECIFICATIONS

DC Capacity
240 kW

AC Capacity
200 kW

Annual Generation
3,06,400 kWh/yr

Solar Irradiance
1,532 kWh/kWp/yr

Performance Ratio
75%

Solar Panels
400 × 600W

Inverters
2 × 100 kW

System Type
On-Grid + Agrivoltaics

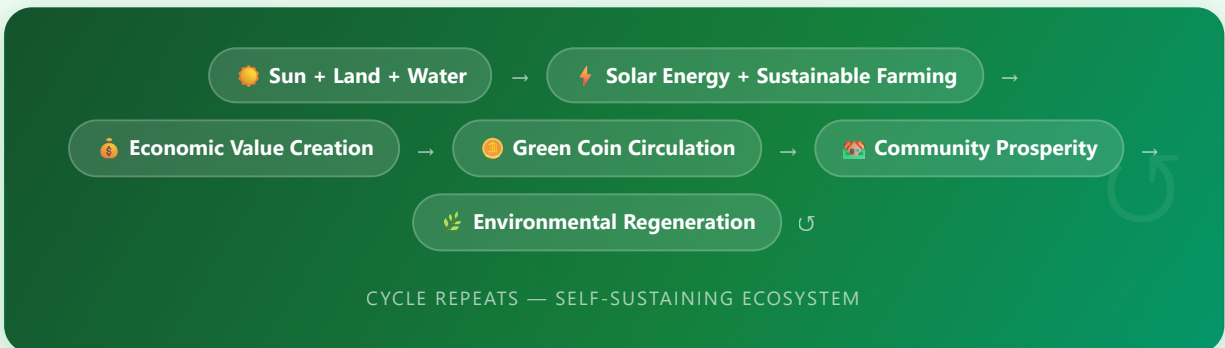
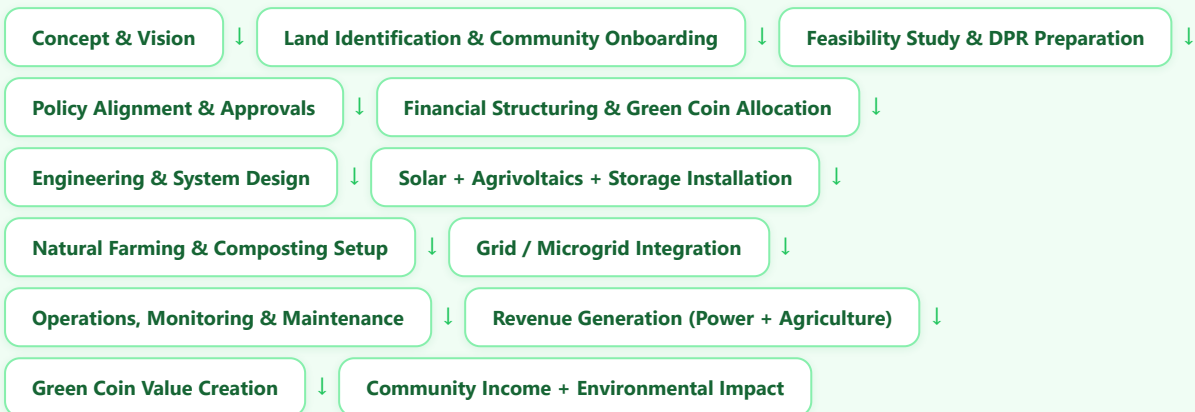
Crops: Turmeric (primary) · Ginger · Shade-tolerant vegetables

Scheme: PM-KUSUM Component C + UREDA + MSSY

Status: Pilot implementation in progress

High-Level Flow: Vision → Impact

Stakeholder-friendly overview of the complete project journey



1

Planning & Community Formation

Vision · Land aggregation · Stakeholder alignment

- Vision Definition — Green Coin Community Model
- Village / Land Cluster Identification — Udalt, Pauri Garhwal
- Farmer / Landowner / Panchayat Engagement
- MoU / Participation Agreement signed
- Green Coin Community Registration

34 Nali

Land Area

1.06 Acres

= 4.25 Bigha

8 km

To Substation

Loamy

Soil Type

— PHASE OUTPUTS

✓ Community Buy-in

✓ Land Aggregation

✓ Stakeholder Alignment

✓ Signed MoU

2

Technical & Financial Feasibility

Bankable feasibility · Optimised land use plan

240 kW

DC Capacity

200 kW

AC Capacity

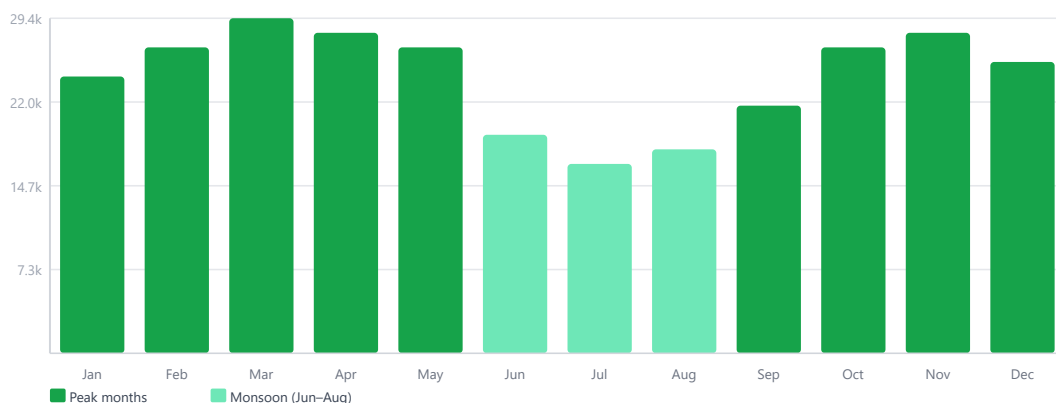
3,06,400

kWh / Year

3,060 sq.m

Cultivation Area (85%)

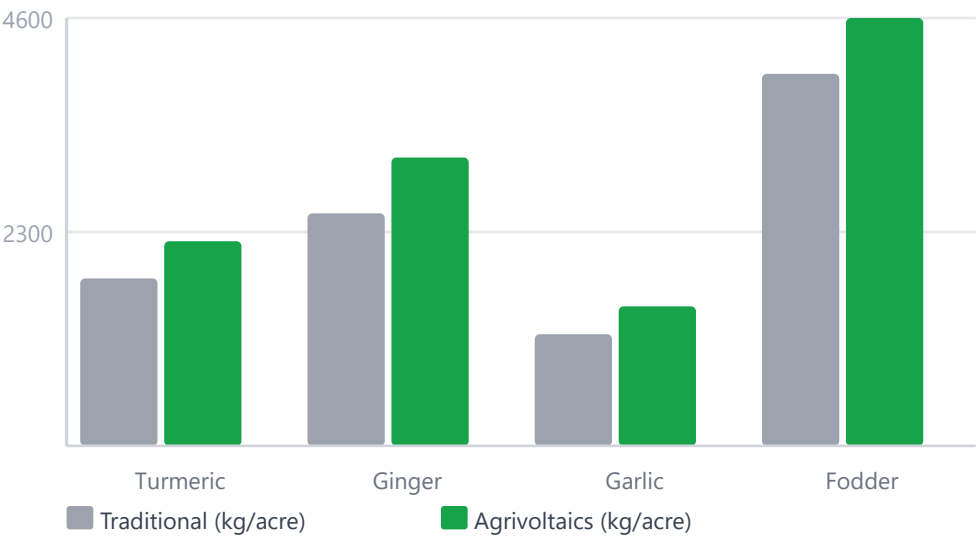
Monthly Solar Generation Profile (kWh)



Monthly Generation Detail

Month	kWh	Factor	Month	kWh	Factor
Jan	24,257	0.95	Jul	16,597	0.65
Feb	26,810	1.05	Aug	17,873	0.7
Mar	29,363	1.15	Sep	21,703	0.85
Apr	28,087	1.1	Oct	26,810	1.05
May	26,810	1.05	Nov	28,087	1.1
Jun	19,150	0.75	Dec	25,533	1
Annual Total (approx.)				3,06,400 kWh	

Agrivoltaics vs Traditional Yield (kg/acre)



— PHASE OUTPUTS

- ✓ Bankable Feasibility Report
- ✓ Optimised Land Use Plan
- ✓ Monthly Generation Profile
- ✓ Crop Selection Matrix

On-Grid Financial Structure

33.2% Subsidy

66.8% Net Cost

Subsidy: ₹45.80 L

Net: ₹92.20 L

Total: ₹1.38 Cr

Particulars	Amount (₹)	Subsidy (₹)	Actual Cost (₹)	Revenue (₹)
PV Plant (Panels, Inverter, Structure, Wiring, Civil, Transformer)	1,00,00,000	40,00,000	60,00,000	16,54,560
Land Development (Agriculture, Crop, Maintenance)	15,00,000	—	15,00,000	3,00,000
Compost Processing (Vehicle, Collection Point, Potholes)	10,00,000	3,30,000	6,70,000	6,00,000
Water Harvesting Plant (10 KL capacity)	5,00,000	2,50,000	2,50,000	—
10 Employees incl. 2 Supervisors (NISD Dehradun trained)	8,00,000	—	8,00,000	—
TOTAL	1,38,00,000	45,80,000	92,20,000	25,54,560

₹1.38 Cr

Total CapEx

₹45.80 L

Subsidy (33%)

₹92.20 L

Net Cost

₹25.55 L

Annual Revenue

— PHASE OUTPUTS

✓ Approved DPR

✓ Subsidy ₹45.8L Secured

✓ DISCOM Clearance

✓ Net Metering Agreement

Off-Grid Financial Structure

54.6% Subsidy

45.4% Net Cost

Subsidy: ₹13.15 Cr

Net: ₹10.93 Cr

Total: ₹24.08 Cr

Particulars	Amount (₹)	Subsidy (₹)	Actual Cost (₹)	Revenue (₹)
PV Plant 550–585W (Panel ₹7.5Cr + Battery 500AH ₹8Cr + Inverter, Structure, Civil)	20,73,00,000	12,50,00,000	—	2,15,28,000
Land Development (Agriculture, Turmeric, Maintenance)	45,00,000	—	45,00,000	1,20,00,000
Compost Processing (Vehicle, Collection, Civil)	1,00,00,000	60,00,000	40,00,000	30,00,000
Water Harvesting Plant (10 KL)	50,00,000	5,00,000	45,00,000	—
20 Employees incl. 3 Supervisors (NISD Dehradun trained)	39,60,000	—	39,60,000	—
TOTAL	24,07,60,000	13,15,00,000	1,69,60,000	3,65,28,000

₹24.08 Cr

Total CapEx

₹13.15 Cr

Subsidy (55%)

₹1.70 Cr

Net Cost

₹3.65 Cr

Annual Revenue

PM-KUSUM-C

- 30% Central subsidy
- 30% State subsidy
- Grid-tied systems

MSY (MNRE)

- 20% State support
- Agricultural solar
- Priority processing

UREDA UK

- 100% wheeling waiver
- 50% SGST refund
- Fast net metering

— PHASE OUTPUTS

✓ DPR Filed & Approved

✓ ₹13.15 Cr Subsidy Secured

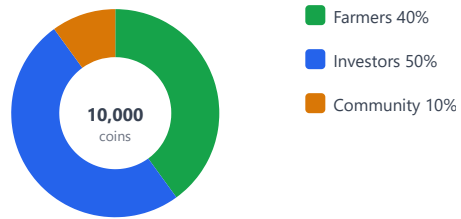
✓ Regulatory Clearance

✓ Off-Grid Viable

Capital Structure (On-Grid)

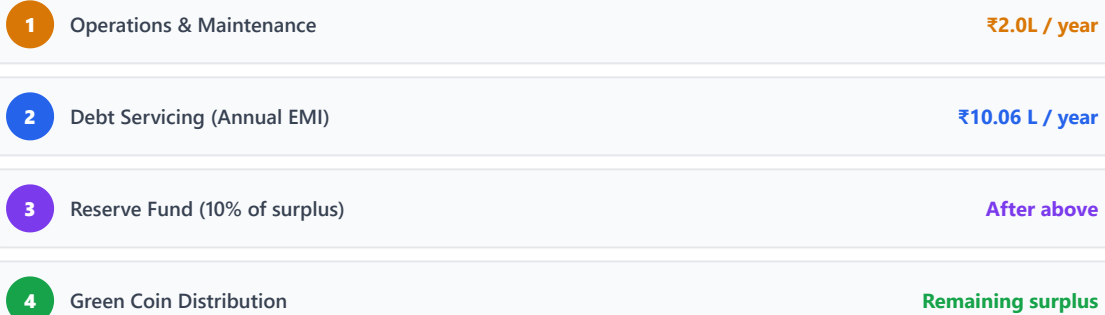
Total CapEx	₹1.38 Cr
Government Subsidy	₹45.80 L (33%)
Net Investment	₹92.20 L
Debt (70%)	₹64.54 L @ 9% × 10yr
Equity (30%)	₹27.66 L
Annual EMI	₹10.06 L
IRR	16.7%
Payback Period	6 Years

Green Coin Allocation



Each ₹1 equity = 1 Green Coin. Quarterly surplus distributed proportionally. Value appreciates with project performance. Tradeable from Year 5.

Revenue Distribution Waterfall



— PHASE OUTPUTS

✓ Financial Closure Achieved

✓ Green Coin Ledger Active

✓ 10,000 Coins Issued

✓ Transparent Ownership

- System Design — 240 kW DC, 200 kW AC solar + agrivoltaic layout
- Battery Storage Design — hybrid / off-grid configuration
- Water Harvesting & Drip Irrigation Design (10 KL/day capacity)
- Procurement — MNRE / IEC Approved Tier-1 equipment only
- Logistics & Site Mobilisation plan executed

400 pcs

Vikram Solar 600W Panels

2 × 100 kW

Sungrow Inverters

Galv. Steel

Mounting Structure

BIS / IEC

All Certifications

⚙️ Quality Assurance

- MNRE-approved only
- Tier-1 brands
- Factory inspection
- Pre-dispatch testing

⚙️ Warranty Management

- 25-yr performance guarantee
- Product warranty: 12 yr
- On-site technical support
- Spare parts inventory

⚙️ Agricultural Integration

- Optimal panel height for crops
- Drip irrigation installed
- Soil preservation during work
- Farm equipment access

⚙️ Compliance

- BIS / IEC certified
- ALMM-approved modules
- CEA regulations met
- Fire safety standards

— PHASE OUTPUTS

✓ Final System Design

✓ Complete BOM

✓ Procurement Plan

✓ Quality Assurance Checklist

- Land Development & Civil Works — 15-week schedule
- Solar Structure Installation — galvanised steel elevated frames
- Module, Inverter & Battery Installation
- Electrical Works, DCDB, ACDB & Safety Systems
- Agricultural Bed Preparation under solar arrays

15 Weeks

Total Timeline

6 / 6

Milestones Completed

Passed

Quality Checks

75%

Site Completion

— PHASE OUTPUTS✓ **Solar Plant Erected**✓ **Electrical Systems Commissioned**✓ **Agricultural Infrastructure Ready**✓ **Safety Clearance Obtained**

- Composting & Vermiculture Units established
- Organic Input Preparation — Jeevamrit, Beejamrit, cow-dung slurry
- Crop Plantation: Turmeric (primary), Ginger under solar arrays
- Drip Irrigation & Water Management operational
- Farmer Training — 5-day hands-on organic farming workshop

Crop Revenue

- Turmeric: ~1,500 kg → ₹3.75L
- Ginger: ~2,400 kg → ₹3.05L
- Total agri: **₹6.80L/yr**

Compost Revenue

- 7,000 kg produced/yr
- ₹60/kg market rate
- Total compost: **₹4.20L/yr**

Income Transformation: Traditional vs Green Coin

Traditional



₹6.0L/yr

+85%

Green Coin



₹11.08L/yr

— PHASE OUTPUTS

✓ Chemical-Free Farming

✓ Compost Units Operational

✓ Farmers Trained

✓ Market Linkages Established

✓ Circular Economy Activated

- Net Metering / Open Access Connectivity established with DISCOM
- Battery Synchronisation & Hybrid Mode configured
- SCADA & Real-time Monitoring Setup activated
- Testing & Commissioning — all safety checks passed
- Commercial Operation Date (COD) achieved

Net Metering

Grid Connectivity

SCADA

Live Monitoring

Hybrid

Battery Mode

COD ✓

Day-1 Revenue

— PHASE OUTPUTS

✓ Grid Connected

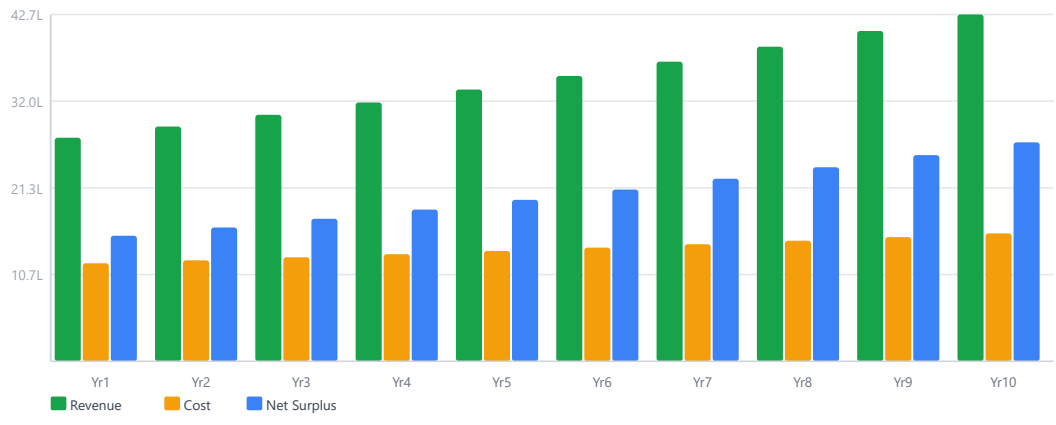
✓ Battery Synced

✓ SCADA Active

✓ COD Achieved

Revenue Stream	Year 1 (₹)	Year 5 Est. (₹)	Year 10 Est. (₹)
☀️ Solar Energy Sales	16,50,000	19,13,000	24,40,000
🌾 Agricultural Produce	6,80,000	8,27,000	11,06,000
♻️ Organic Compost	4,20,000	5,11,000	6,83,000
🌿 Carbon / ESG Credits	—	Activating	~2,00,000
Total Revenue	27,50,000	32,51,000	44,29,000
Less: O&M Cost	2,00,000	2,25,000	2,61,000
Less: Annual EMI	10,05,663	10,05,663	Nil (loan closed)
Annual Net Surplus	15,44,337	20,20,337	41,68,000

10-Year Cash Flow — Revenue · Cost · Net Surplus (₹ Lakhs)



₹27.5L

Year 1 Revenue

₹15.44L

Year 1 Surplus

16.7%

Project IRR

6 Years

Payback Period

— PHASE OUTPUTS

✓ 3 Revenue Streams Active

✓ O&M System Operational

✓ EMI On Schedule

✓ Surplus Distributed to Stakeholders

- Revenue Distribution to all stakeholders — quarterly via Green Coin ledger
- Farmer Income Enhancement — avg. 113% increase over traditional farming
- Community Development Fund — 10% of surplus to Panchayat
- Environmental Impact Tracking — CO₂, water, soil health metrics
- Replication in New Locations — scaling the model across Uttarakhand

Farmer Impact

- Dual income (solar + crops)
- ~113% income increase
- Zero chemical input costs
- Secure 25-year land tenure

Energy Impact

- 245 t CO₂/year avoided
- 3,06,400 kWh clean energy
- Energy independence
- 25-year generation assured

Environmental

- Soil regeneration (organic)
- 1,200 kL water saved/yr
- Biodiversity support
- Carbon sequestration

Scalability

- 33 jobs per community
- Replicable template
- Green Coin ecosystem
- Year 5 target: 15 communities

12

Farmers Covered

+113%

Income Increase

245 t

CO₂ / Year Saved

33

Jobs Created

— PHASE OUTPUTS

✓ Dual Farmer Income Assured

✓ Clean Energy Generated

✓ Water & Soil Restored

✓ Model Replicated

✓ Green Coin Active & Circulating

Fuse Code Solutions Pvt. Ltd. · Uttarakhand, India

Green Coin Community Program · Agrivoltaics · Solar EPC · Natural Farming

All figures based on the Udalt Pilot Project, Pauri Garhwal, Uttarakhand. Revenue projections assume 3–5% annual escalation. Subsidy figures per PM-KUSUM, MSSY & UREDA schemes.

GCC