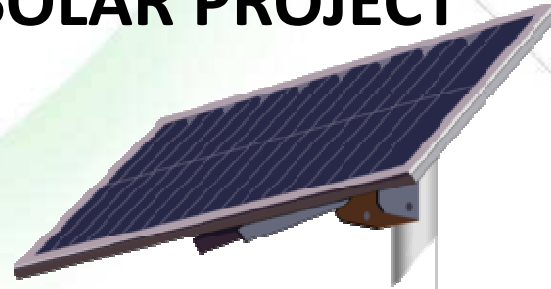


“Project Diptanshu”
A 2.5kWp GRID-CONNECTED CANOPY BASED
SOLAR PROJECT



M/s. Crux Power, Bhubaneswar



About Us

CRUX POWER

- Started in September 2011
- EPC arm of Canyon Consultancy Pvt. Ltd
- Engaged in Rural & Remote Village/Hamlet Electrification

Solutions Offered

- Solar project up to 100kWp
- Solar lantern, home lighting systems, LED street lights etc
- Solar water heater, cooker, dryer, pump, AC, fencing etc
- Modular bio-gas and Wind-Solar-DG hybrid systems
- Biogasifier (11kWe onwards)
- Hydel projects (5kWe onwards)
- Green Building - LED, Waste Management etc.
- Water Treatment & Harvesting, STP etc.



2.5KWp Grid-Connected Solar Project

The Agenda

- To reduce dependency and consumption of grid power of Shri Prasanna Mishra
- To contribute to betterment of climate on individual basis
- To become a 'Green Citizen'
- To pump in surplus solar power generated to the state grid during holidays
- To create awareness among the local citizen who are well off and can adopt such projects

Solutions Offered

- Grid connected 2.5kWp solar project
- Odisha's first thin-film module and canopy based solar project for household
- No battery is used, so maintenance is reduced significantly
- The solar power generated is used in all loads parallel to grid power
- Provision is there to export surplus solar power during holidays

Impact Assessment

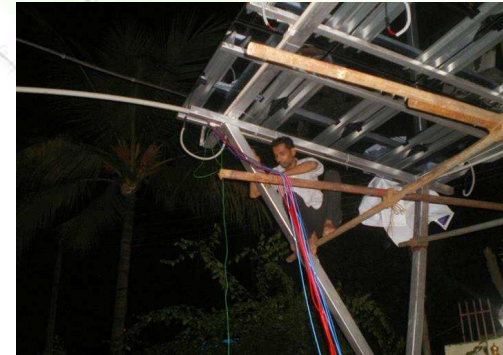
- This project is:
 - Generating 20% more solar units per day as compared to conventional polycrystalline based project. Currently generating 10 to 12 units per day
 - Increasing awareness among household who can afford such projects
 - The canopy is giving a better look to the house



| PARTICULARS | DETAILS |
|---------------------------------------|---|
| Project Capacity | 2.5KWp |
| Project site | Bhubaneswar |
| Type of system | Canopy Based |
| Type of PV modules | Thin Film [CIS] |
| Capacity of plant | 2.5KWp |
| Max rated power of each module | 125Wp |
| Total no. of PV modules | 20 |
| Inverter capacity (Rated power) | 2.5KW |
| Maximum Unit Generation (Expected) | 12 |
| Daily Unit generation (Average) | 9.7 Units |
| CUF | 16.16% |
| Type of Inverter | Grid Connected |
| No. of Phases | 3 ϕ , 415Volt, 50HZ |
| Solar Radiation Average (Annual) | 5.02 KWh /m ² / day (Global Horizontal Irradiance) |
| Type of Tracking | Fixed angle, Tilt 22° |
| Details of Protection | <ul style="list-style-type: none"> - Fuses and Isolators at PV array side - Surge arrestor, and MCB at AC Side - Inverter provided with Icelandic protection |
| Data Logging & analysis | Inbuilt Inverter |



Glimpse of the 'Project Diptanshu'





Contact Us

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