

Prepayment Energy Meter Product catalogue

Cypress Infratech Pvt. Ltd

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Company Overview

- Delhi based Greentree Energy Pvt Ltd was incorporated in year 2009 and provides Energy Design and Efficiency Consultancy Services, providing end to end energy consulting solutions
- Cypress Infratech Pvt Ltd (CIPL), allied partner firm of Greentree was established in year 2013 with a vision of providing end to end Energy Metering & IOT Solutions to Telecom, & Infrastructure.
- It has three office locations in India; Noida (HQ), Kolkata, and Mumbai and is executing more than 200 domestic and international projects currently.

Key Highlights

Cypress Business Highlights

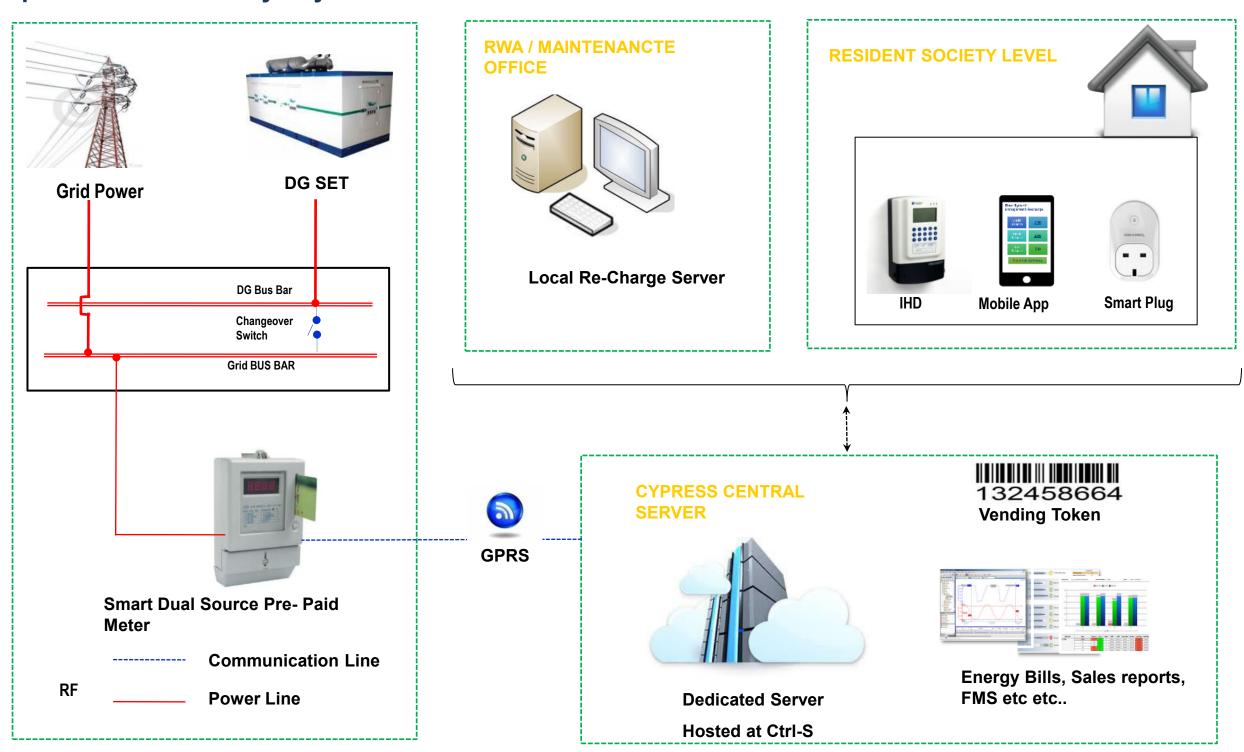
- CIPL has positioned itself in the field of customized energy Management Solutions & Products
- Developed ESS (Lithium Ion Energy Storage Solution) performance data logging system & "HEMS" Home Energy Management System for PANASONIC India
- Developed "TELESYNCH" Cloud based Software tool for Telecom Sites Energy Monitoring
- CIPL has developed Smart Prepaid Metering Solution
- Developed ECO Nirman (Building Energy Policy Compliance Tool) & ECO Bench (Building Energy Benchmarking Tool) for Bureau of Energy Efficiency (BEE), funded by USAID.
- Worked with State Designated Agencies (Uttar Pradesh, Uttarakhand, Bihar, Tamil Nadu etc.) in developing the Energy Efficiency Codes (ECBC) as per their states' requirements.

Greentree Business Highlights

- It has uniquely positioned itself in building energy efficiency domain by working with several public and private sector agencies on their buildings projects.
- Green Building Certifications LEED (USGBC), GRIHA, IGBC, BREEAM, Green Mark
- Energy Modeling & Services, Solar and CFD simulations.
- Energy Audits and ESCO projects.
- It has also a working experience in South Korea, Kuwait, Vietnam, & Istanbul. It has a registered subsidiary firm:
 GreenTree Consultant Bangladesh with office located in Dhaka.

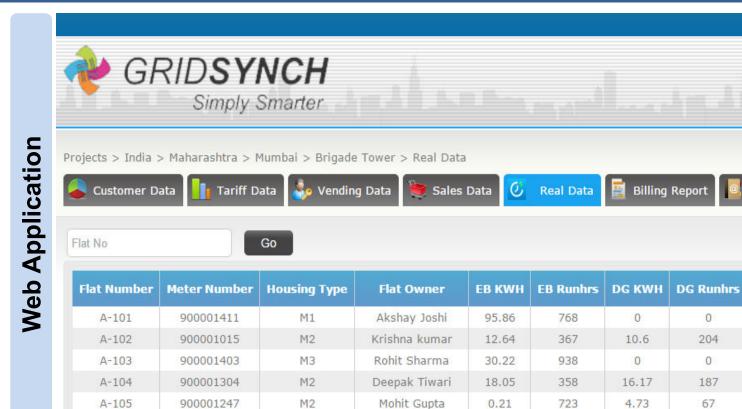
Prepaid Energy Meter - Engineering solution for Mid & High rise Apartments

Cypress brings a complete Solution for Energy Measurement, Vending and Billing. The Entire model is developed to ensure Timely Payments and no Power losses



MAIN POWER STATION

Vending, Billing and Facility Management Solutions



Facility Management information:



Notices: Important information Reaches your inbox, every time



Events: Bring everyone together, to celebrate or to solve issues.



Directory: Reach out to RWA, fellow residents & Emergency contacts.



SMS/Email Broadcasts: Send Important announcements and reminders, instantly.



Complaints Management: Track and resolve resident complaints, efficiently.

Complaints

1000

1200

1400

1400



Vendor Management: Manage vendor contacts, invoices & payments effortlessly.



Account management: Manage Bank accounts and petty cash, painlessly.



Payment Gateway: Pay/ Collect maintenance dues online.

hassle-free transactions

Energy Billing information:

- Monthly billing: Complete transparency on breakup of Energy bills and Maintenance bills.
- •Running Hours of DG and Mains Supply is provided.
- Real time data monitoring with time stamps to know any tampering of any energy meter

•Bill recharge possible through RWA office and also from Mobile App





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Prepayment Meter

Features of Three Phase Prepayment Meter

- Meter can distinguish between Grid (Main) Supply and Auxiliary (Backup) supply and deducts the amount according to respective tariff and usage.
- State of the Art Anti-tampering Auxiliary supply sensing cable.
- Cut off power after the credit is used out.
- Meter has overdue function: It can overdue when it is in friendly hours.
- ❖ Low credit alarm: Meter/ IHD will sound beep when the balance is less than preset alarming credit
- ❖ Flexible Tariffs: 8 tariff registers available for configuration. ToU and Step Load tariff available.
- ❖ Built-in relay which can trip when over load for Set Main and Aux Load, balance run out, tamper happen and so on.
- **❖** Event Log : Token, recharge amount and tampering events.
- Tampering functions: Terminal cover opened, Terminal cover opened when power off, Phase sequence error, detected magnetic field, three phase unbalance.





- IHD provides remote access to metering data for Energy monitoring.
- **❖** Keypad for entering 20digit recharge token.
- Provides user friendly display and easy distinguish between Main Supply and Auxiliary Power Supply.
- Alert on low credits and tampering.



Three Phase Dual Source Prepayment Meter

EM-346 adopts advanced microelectronics technology and provide advanced functionalities on Smart Prepaid Energy management. This meter distinguishes the Supply source and deducts the amount according to respective tariff and usage.

Technical Parameters

Wiring configuration: 3phase 4wire

Connection type: Direct Connected

Voltage: 3*240V AC (-40% to 20%)

Current: 10(60) A

Accuracy class: 1 S

Frequency: 50Hz (\pm 5%)

Impulse constant: 1000imp/kWh

Power consumption: ≤8VA ≤1W

Starting current: 0.004lb

Temperature range: -20 ~ 70 ° C

Average humidity: 75%

Maximal value: 95%

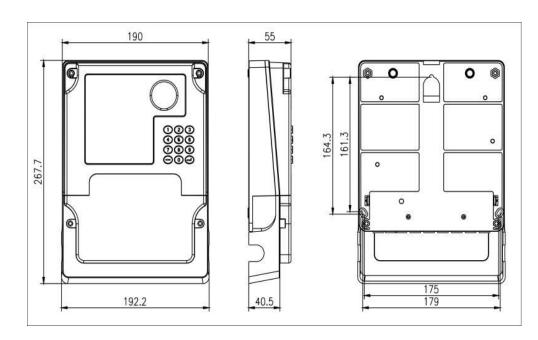
Display: LCD 6+2

Ingress protection: IP 51

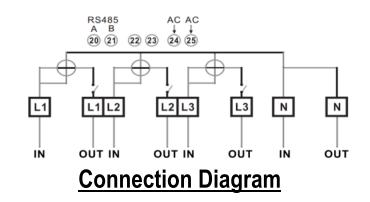
Enclosure: Engineering Plastic

Communication port: RF or RS485

Standards: As per IS: 13779



Dimensions



Single Phase Prepayment Meter

CYP-PM101 single phase prepayment meter is a smart, integrated meter for measurement of single phase grid supply. Based on the electricity consumption, the prepaid recharge amount gets deducted with respective to various tariff configured in meter.

Technical Parameters

Wiring configuration: 1phase 2 wire

Connection type: Direct Connected.

Voltage: 230V AC (-40% to 20%)

Current: 5(40)A

Accuracy class: 1 S

Frequency: 50Hz (\pm 5%)

Impulse constant: 1000imp/kWh

Power consumption: ≤8VA ≤1W

Starting current: 0.002lb

Temperature range: -20 ∼ 70 ° C

Average humidity: 75%

Maximal value: 95%

Display: LCD 6+2

Ingress protection: IP 51

Enclosure: Engineering Plastic

Communication port: RS485 or RF

Standards: As per IS 13779



Cypress & SKN Bentex Partnership

- ❖ Prepaid Energy Meter Product and Solution developed by Cypress.
- **❖** SKN Bentex is contract manufacturer for Cypress.
- **❖** SKN Bentex group has history of 35years.
- **❖** SKN Bentex produces Electronic Meter since year 2000 and primarily supplying to State discoms.
- ❖ Bentex has installed more than 10000 Dual source prepaid meter and supplied millions of Energy meter to Utilities and in retail market.
- ❖ 96 Position Fully Automatic and Semi Automatic test benches from Europe
- ❖ Bentex and Cypress collectively have 70+ Engineering Staff and others 300+
- ❖ 35000Sqft Factory Area.







Projects running on Dual source Prepaid Meter

WITH OLD DESIGN



UttarPradesh

- 1.Omaxe NRI city, GreaterNoida
- 2. Amrapali greens, Indirapuram, Ghaziabad, U.P.
- 3.Landcraft, Raj Nagar Extension, U.P.
- 4.Leela Homes, Vaishali, Ghaziabad, U.P.
- 5. Gulmohar Greens, Mohan Nagar, Ghaziabad,
- 6. Crossing Republic, Noida Ext., U.P.

Haryana

- 1.SRS, Faridabad,
- 2.Shri Sai, Ozone Park, Faridabad.
- 3.Besttech Spa, Gurgaon.
- 4.Besttech SpaNext, Gurgaon.





UttarPradesh

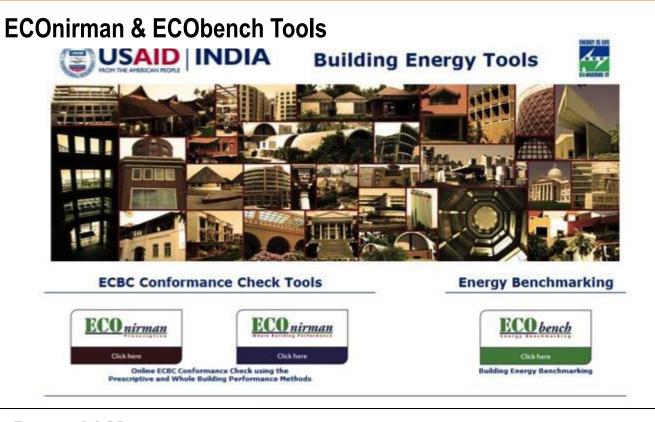
- 1. Panchsheel Greens, Noida Ext, U.P.
- 2. Panchsheel Hynish, Noida Ext, U.P
- 3. Amrapali Leisure Valley, Noida Extn, U.P.



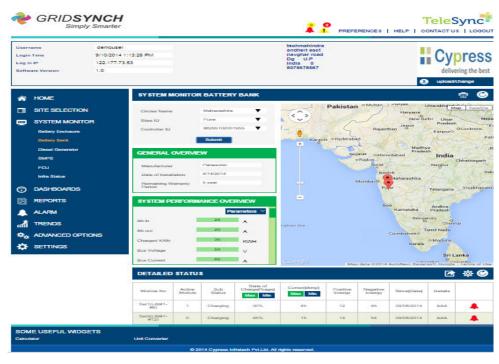
Few ConsultingProjects by us...

Projects	Certification	Projects	Certification
University of Petroleum & Energy Studies, India	GRIHA - 4 Star	Service Building - 2 X 600 MW SCCL, India	GRIHA - 4 Star
Fortis Hospital, NCR	GRIHA - 3 Star	Vallabh Bhawan, India	GRIHA - 4 Star
Fortis Memorial Research Institute, NCR	GRIHA - 4 Star	New Terminal Building, Port Blair Air Port, India	GRIHA - 3 Star
Oriflame Factory Building, India	LEED - Gold	HAL Office Building, India	GRIHA - 3 Star
POSCO Power Mirae, South Korea	LEED - Platinum	UHBVN Office Building, India	IGBC NC - Platinum
SK Chemicals, South Korea	LEED - Gold	Extension of IGNOU Campus, NCR	GRIHA - 4 Star
SKN Head Office, South Korea	LEED - Platinum	IGNOU Regional Centre, India	GRIHA - 3 Star
Nokia Factory Building, Vietnam	LEED - Silver	MES 505 Workshop, NCR	GRIHA - 3 Star
JM Orchid, NCR	IGBC - Gold	CSIR Innovation Complex, India	GRIHA - 4 Star
Skytech Matrott, NCR	IGBC - Gold	GNDA Building, NCR	LEED India NC - Platinum
KT Cheongjin, South Korea	LEED - Gold	DSIIDC 200 bedded hospital, NCR	GRIHA - 3 Star
Lecture Theatre cum Lab Complex, IIT Delhi	GRIHA - 3 Star	ISM Dhanbad, India	GRIHA - 3 Star
Elite Homz, NCR	IGBC - Gold	Panchsheel Pratistha Group Housing, NCR	IGBC - Gold
Jewel of Noida, NCR	IGBC - Gold	MICM Building, India	GRIHA - 4 Star
Assotech Blith Group Housing, NCR	IGBC - Silver	NIT Rourkela, India	GRIHA - 3 Star
Lotus Arena , NCR	GRIHA - 4 Star	NRL Corporate Office, India	GRIHA - 4 Star
The British School, NCR	GRIHA - 5 Star	UPNEDA Training Centre, India	Net Zero and ECBC Compliance
Office Building for Minarch Overseas, NCR	LEED India - Gold	Lotus Arena 1, NCR	GRIHA - 4 Star
Office Building for Four Star Reality, NCR	LEED India - Gold	Indian Institute of Agricultural Biotechnology, India	GRIHA - 4 Star
GAIL (India) Limited office building, India	GRIHA - 3 Star	New Delhi District Court, NCR	GRIHA - 3 Star
Homes 121, NCR	IGBC - GOLD	Ormiston Primary School, New Zealand	Green Star
Ajnara Daffodil, NCR	IGBC - GOLD	Flat Bush Stage 4, New Zealand	Green Star
JM Aroma, NCR	IGBC - GOLD	Carlton Gore, New Zealand	Green Star
N2 - Tower 5,6 and 7, NCR	IGBC - Gold	Katmandu, New Zealand	Green Star
Trinity NX, NCR	IGBC - Platinum	Flat Bush Stage 5, New Zealand	Green Star
Mansion 'de Salam, Bangladesh	LEED - Gold	Vodafone Stage 1, New Zealand	Green Star
Marriott Hotel, Nepal	LEED - Gold	96 SGBR, New Zealand	Green Star
Palmal Group, Bangladesh	LEED - Gold	46 Sale Street, New Zealand	Green Star
GGSIPU, NCR	GRIHA - 5 Star	Building A, New Zealand	Green Star
Police Residential Complex, NCR	GRIHA - 4 Star	Hopetoun ST Apartment, New Zealand	Green Star

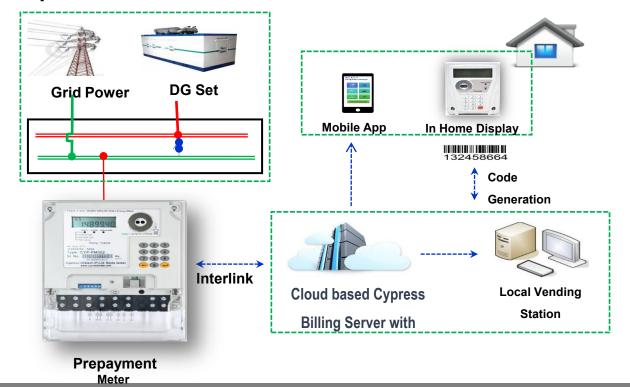
Cypress - Products & Solutions



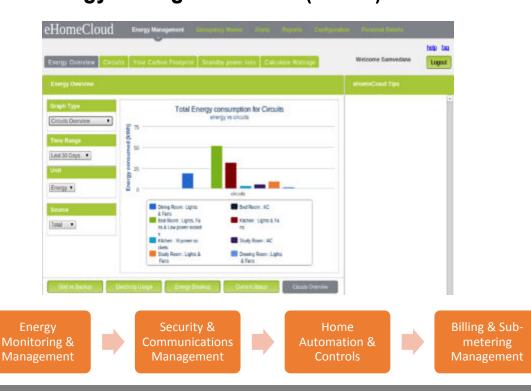
Remote Telecom Tower Management



Pre-paid Meters



Home Energy Management Tool (HEMS)







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