



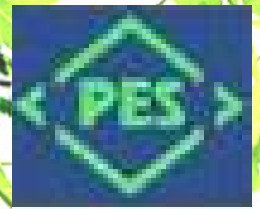
Quality Makes
Relationship

Prepaid Energy Meter



PES Electrical Pvt. Ltd.

*We established in 1998 & we are successfully engaged in offering an extensive range of DUAL ENERGY METER, DUAL PREPAID ENERGY METER AND **Energy Management System Products**. Our products are widely appreciated for their automatic operations, longer service life, corrosion resistance, reliable functioning, user-friendly and low maintenance.*



Quality Makes
Relationship

Quality Policy:

- *We constantly Endeavour to meet the exacting demands of our customers while maintaining the competitiveness through continuous improvements.*
- *We are ISO 9001:2008 certified company & we shall implement this policy statement by:*
 - *Setting quality objectives at all levels of the Organization and providing adequate resources.*
 - *Continual improvement of processes through optimum use of resources.*
 - *Ensuring involvement of employees in all areas of operation.*
 - *Reviewing targets and objectives at regular intervals.*
 - *Improving effectiveness of quality management System.*
 - *Continuous improvement of our processes, and systems.*
 - *Ensuring our personnel is properly trained so they are better able to serve our customers.*

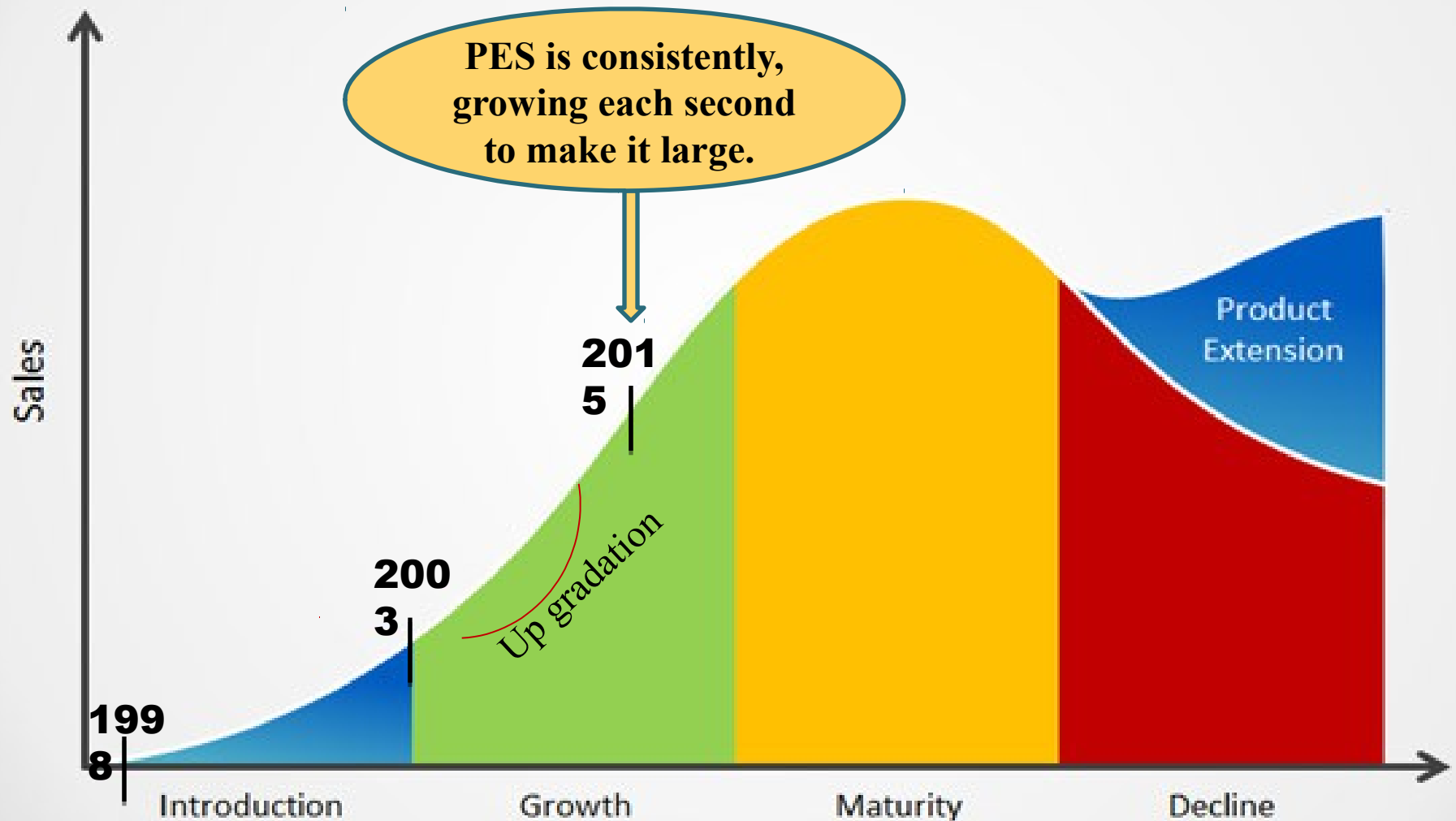


Why PES Electrical.....?

- ❖ We are 18 year old company manufacturing A1 class Meter. Our meter is Hassel free, low maintenance cost with zero rejection & accurate in energy measurement
- ❖ Our meters and solutions are smart, allowing energy suppliers to engage users through a pragmatic and responsible use of technology
- ❖ We hold a strong position in delivering service facility to our clients. For this purpose we started FIR technique (First Impulsive Response) in which we provide solution within time frame.
- ❖ Our system is suitable for small to large networks, as we use Injector for DG signaling (PLCC Based)



Our Existence in Market



“We don't believe in Sales only but in facility service to make a life time expression over market”

Strong Pillar

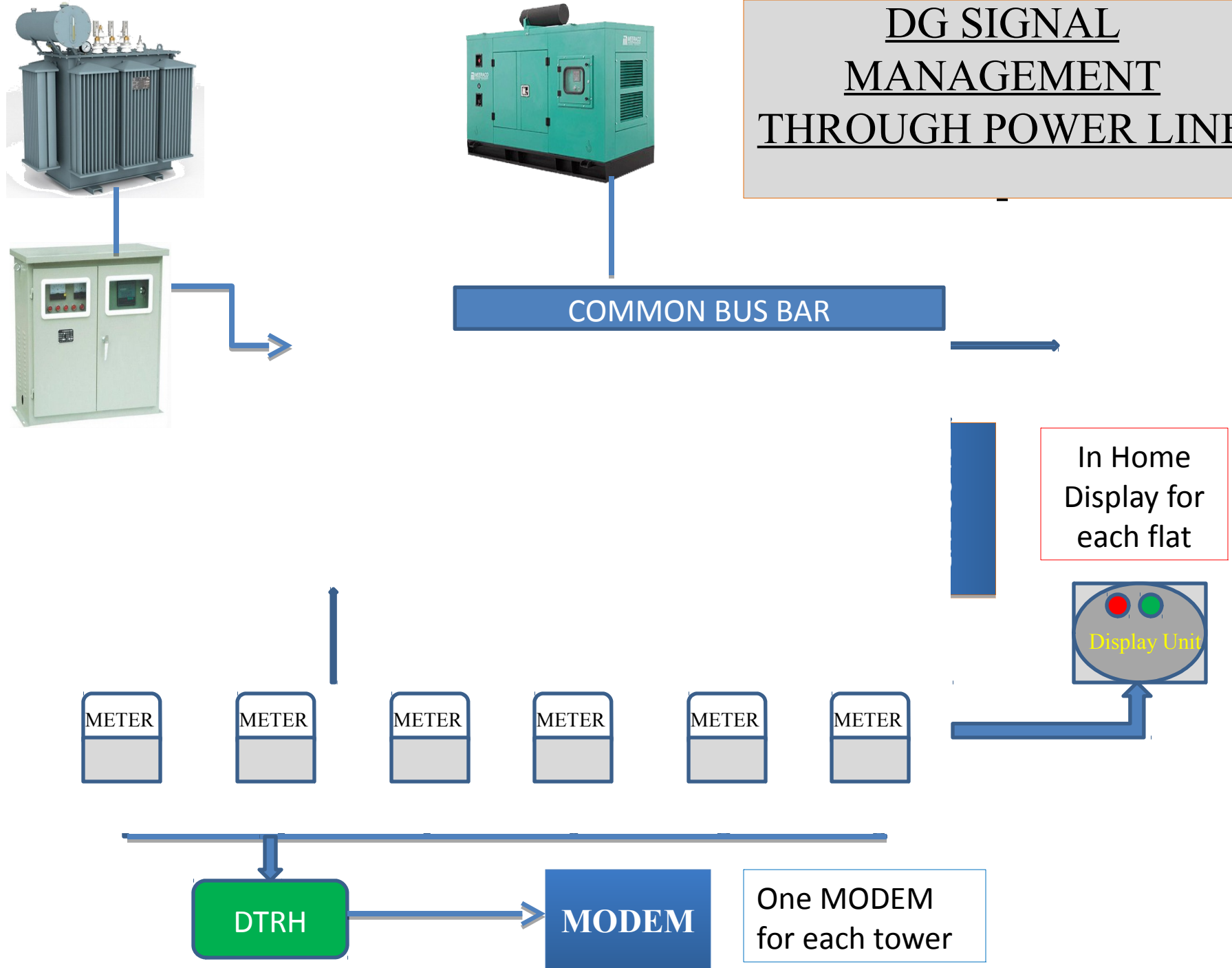


Our round the clock Facility People will make your site valuable & critic free.

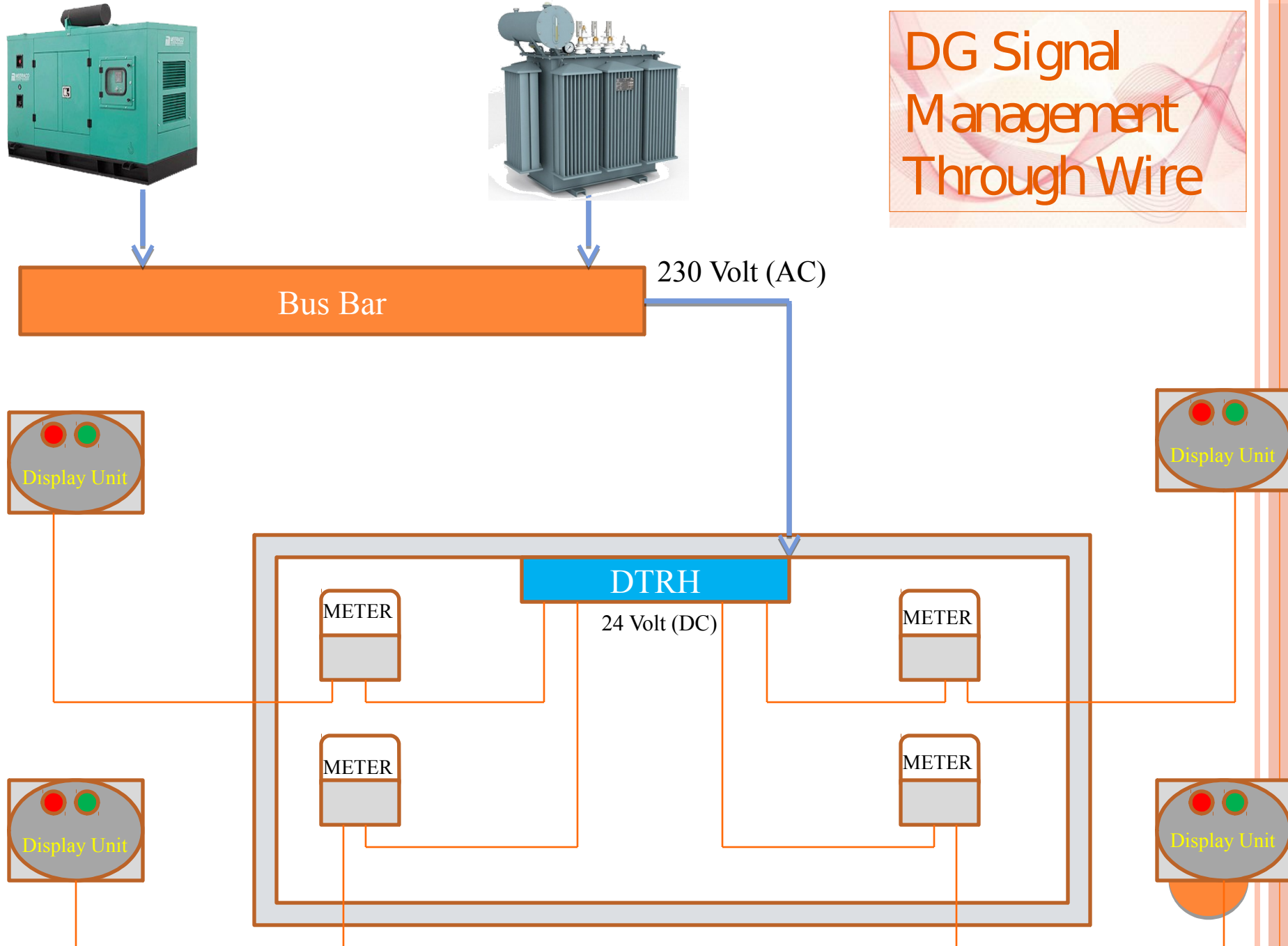
CENTRALISED REMOTE PREPAID METERING SOLUTION WITH WEB CONNECTIVITY WITH (OPTIONAL DISPLAY UNIT) ver-4



DG SIGNAL MANAGEMENT THROUGH POWER LINE



DG Signal Management Through Wire



Smart Prepaid

Technical Specification. Meter

- ❖ Standard: As per IS 13779
- ❖ Accuracy: Class-1
- ❖ Working temperature:- 20~+65c
- ❖ Working voltage range: 100-500volt
- ❖ Power loss: less than 2w
- ❖ Outline dimension:
LxWxH;225x175x85mm
- ❖ Installation dimension: LxW;275x225mm
- ❖ Weight: approx 2kg.

Feature of prepaid energy meter

- Meter is of ISI marked.
- Meter is 100% temper proof. If user will try to temper the meter, SMS alert will also sent to the facility team.
- System is capable to generate various customized report as required.
- Data Collection for billing is automatic on real time basis. Bill preparation & distribution of bill is automatic and sent to the facility team. .
- Accuracy of the Prepaid Energy Meter is of Class 1.
- Each Energy Meter is starts as prepaid energy meter from the first day of installation. The available balance will shown in meter as well mobile & computer.
- A log of 45 days is available for transparency between user & facility team, if any conflict occurs.
- If the loss will increase above the defined limit, system will generate an export & import analysis & SMS alert will sent to the concerned user.

..... **Feature of prepaid energy meter**

- There is no need to visit physically to the meter *for load limit, tariff, coupon generation* as it can be done remotely by sending unique customer code to the facility team.
- Bill Generation indicates other charges/Common Area Charges, corresponding unit consumed in the previous year of the same month etc as required by the facility management team.
- Bill indicates energy consumption records on Mains & DG Separately.
- Prepaid meter have separate records of Mains. If balance is zero, only mains supply will disconnect.
- Prepaid meter have separate records of DG. If balance is zero, only DG supply will disconnect.
- Energy Management: Software is user friendly window based.
- The prepaid metering system is Full Proof Auto Sensing DG & Mains on PLCC based.



..... **Feature of prepaid energy meter**

- In case users do not pay their bills on time or try to temper the system, then the system is capable of disconnection their incoming supply after giving SMS warning. The Software is capable of introducing such features as per the requirements of the facility management.
- A SMS alert will sent to the user in case of low balance is available for a specific user.
- The system will provide Import/Export energy consumption analysis for controlling line loss.
- Pre-payment scheme can activate or de-activated as required.
- A common SMS to all consumers of the society will sent at single click of button if required.
- There is Happy-hours for no disconnection on specified holidays etc. as desired by the facility management.
- If the load exceeds beyond 100%, then system will automatically switch to Auto-Cut Mode on overload & automatically switch on to the reset mode when the load is reduced.
- Display of all energy parameter & live balance with DG Indication is available on the PC as well as on the individual meters.
- The user can see the live Reading/Balance on their mobile.



..... **Feature of prepaid energy meter**

- We will provide Display unit inside home. User can see DG/MAINS unit , live balance & mode of supply through In home display & Mobile App (Qubixlink).
- Display unit have a Buzzer facility at the time of changeover from Mains to DG & Vice-versa.
- Users are able to shutdown their meters remotely from their mobiles as and when required.
- A record for status of functioning of meters is available to ensure that meters are running successfully.
- We will provide DG Signal through Power Line carrier communication, there is no limit of signal distance, based on robust technology.
- System will generate a report indicating complete record of all payments made through coupons recharge.
- Energy meters is suitable to function on 3 phase on DG mode for even load distribution(R, Y, B).
- Desired load is allocated to individual user on DG/Grid mode.
- Bill generated automatically on pre-defined date for all consumers.

..... Feature of prepaid energy meter

- A bills statement is customized as per flat-wise or slab-wise.
- The Energy meter is automatically cut-off on zero balance or overload.
- There is separate database for the number of coupon sold.
- Load management is done with a single button on DG backup, in case of emergency & rollback of old data on restoration of main power supply.
- Simple networking, hence less maintenance which makes cost effective to our client.
- Suitable for large & very large network.
- **We provide first login for the maintenance department wherein he can just check the log.**
- **We provide the second login for Admin, who can see the data, charge the meter and change the load and other credentials.**
- **We provide the third login for super admin who have all the access as admin have along with that he can switch on/off the meter from the software.**
- Any change done by any of the level or login is recorded in the software.

..... Feature of prepaid energy meter

- If anyone tries to open the cover of the meter, an alert SMS reaches the concerned person and Super Admin person as well.
- We also provide the log and recharge for DG and mains separately: **WE ALSO PROVIDE DUAL ACCOUNT, which means Grid & DG as a separate balance available in meter.**
- All the messages are recorded in the software memory, If customer have excuse then we have data along with us for transparency.
- We give the option of payment through Net Banking (Bank will be provided by Developers)

How to operate software windows

Our system is protected by three password

- a) User
- b) Admin
- c) Super-admin

User – User means the person from Facility team or other parallel person can see the data for more transparency. He will not able to change any configuration or data.

Admin- The person who can handle the site, can be able to recharge meters, closely watch meter status & reading.

SuperAdmin- Person can see the status and capable to open the configuration & can change load limit also. Superadmin can also change flat area & able to give credit limit to end user.

Process for operating our software –

1. Go to www.peselectrical.in/site/admin
2. Login to portal through desired User Id & Password.



For Operating software -Login through Internet Explorer



The screenshot shows an Internet Explorer browser window with two tabs: 'Net4 Webmail' and 'Perfect Engineering Service'. The address bar displays 'www.peselectrical.in/landcraft/admin/'. The page header includes a logo with 'PES' inside a diamond shape and the text 'Energy Management System'. The main content area is titled 'Welcome to PES EMS Admin Panel' and contains a login form with two input fields: 'Enter User Name' and 'Enter Password'. Below the fields are two buttons: 'Change Password' and 'Login'.

Net4 Webmail x Perfect Engineering Service x

www.peselectrical.in/landcraft/admin/

PES

Energy Management System

Welcome to PES EMS Admin Panel

Enter User Name

Enter Password

Change Password Login

Meter Status

Perfect Engineering Service X

Amit

www.peselectrical.in/raheja/admin/



PES

Energy Management System

Logout

Configuration

Meter Status

Pre Paid System

Meter Status

Last updated on : Dec 9 2015 2:22PM
No Of Meters Type ALL With Group ALL : 270
Site is On DG

Start Auto Refresh

Stop Auto Refresh

Search

Select Meter

Select Group

| #ID | Customer Name | Mains KWH | DG KWH | Load | Pos. Date | Live Balance | Sanction Load | |
|-----|---|-----------|--------|-------|------------|--------------|---------------|---------|
| | | | | | | | Mains | DG |
| 1 | Mr. Aditya Jain and Ms. Kanchan Jain A-001 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 2663.2 | 8046.5 | 0.270 | 2015-05-01 | -58797.76 | 13000.0 | 2000.0 |
| 2 | Kamlesh Dabas and Vibhore Dabas W/o Ram Dabas A-002 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 33.3 | 60.8 | 0.000 | NULL | -755.99 | 13000.0 | 20000.0 |
| 3 | Sudhesh Bhagat and Swati Bhagat A-003 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 1.4 | 0.1 | 0.000 | NULL | -9.68 | 13000.0 | 2000.0 |
| 5 | Aneeket A-0103 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 1.4 | 0.0 | 0.000 | NULL | -2.40 | 13000.0 | 20000.0 |
| 6 | Sanjiv Sharma and Jaya Sharma A-0101 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 64.3 | 919.7 | 0.040 | 2015-07-30 | -1680.46 | 13000.0 | 20000.0 |
| 7 | Nidhi Mathur and Divesh Mathur A-0104 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 2.2 | 17.8 | 0.000 | NULL | -173.99 | 13000.0 | 2000.0 |
| 8 | Subhash Rathee/Devinder Singh A-0102 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 0.6 | 5.6 | 0.000 | NULL | -54.16 | 13000.0 | 2000.0 |
| 9 | NDTV A-0203 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 0.0 | 1.6 | 0.000 | NULL | -14.40 | 13000.0 | 2000.0 |
| 10 | Neelima singh A-0202 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 0.0 | 9.9 | 0.060 | NULL | -89.10 | 13000.0 | 2000.0 |
| 11 | Mrs Nupur Netan Sachdeva and Mr. Kapil Sachdeva A-0204 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 1.0 | 59.6 | 0.000 | NULL | -542.67 | 13000.0 | 2000.0 |
| 12 | Neale Ramakant Mhatre/Losa Neale Mhatre A-0201 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 0.0 | 0.5 | 0.000 | NULL | 0.00 | 13000.0 | 2000.0 |
| 13 | Anil Choudhary/Gaurav Choudhary A-0304 Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 0.2 | 0.0 | 0.000 | NULL | -0.80 | 13000.0 | 2000.0 |
| 14 | Balakrishnan Pathasarathy and uma Balakrishnan Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 2.8 | 63.7 | 0.000 | NULL | -590.86 | 13000.0 | 20000.0 |
| 15 | Rupa Samantaray Raheja Atharva Sec-109 , Gurgaon 122006, Haryana | 98.9 | 57.5 | 0.000 | NULL | -1137.61 | 13000.0 | 2000.0 |
| 16 | Arun Nehru/HIRDY Nath Nehru | 0.0 | 0.3 | 0.000 | NULL | -2.70 | 13000.0 | 2000.0 |
| 17 | Rakesh Gupta | 0.0 | 17.2 | 0.000 | NULL | -154.80 | 13000.0 | 2000.0 |
| 19 | Mohinder Gandhi/Ankush Gandhi | 1.3 | 5.3 | 0.000 | NULL | -55.85 | 13000.0 | 2000.0 |
| 20 | Sandeep Aggarwal/Minal Sandeep | 0.4 | 36.0 | 0.000 | NULL | -333.73 | 13000.0 | 2000.0 |



Energy Management System

Meter Configuration

Configuration

Meter Status

Pre Paid System

Meter Configure

Group

1 :: TOWER A

Meter

- 1 :: Mr. Aditya Jain and Ms. Kanchan Jain A-001 Raheja Atharva Sec
- 2 :: Kamlesh Debbs and Vibhore Debbs W/o Ram Debbs A-002 Raheja Atharva Sec
- 3 :: Sudhesh Bhagat and Swati Bhagat A-003 Raheja Atharva Sec-1
- 5 :: Aneeket A-0103 Raheja Atharva Sec-109 , Gurgaon 122006, Hary
- 6 :: Sanjiv Sharma and Jaya Sharma A-0101 Raheja Atharva Sec-11
- 7 :: Nidhi Mathur and Divesh Mathur A-0104 Raheja Atharva Sec-10
- 8 :: Subhesh Rathee/Devinder Singh A-0102 Raheja Atharva Sec-10
- 9 :: NDTV A-0203 Raheja Atharva Sec-109 , Gurgaon 122006, Hary
- 10 :: Neelima singh A-0202 Raheja Atharva Sec-109 , Gurgaon 122
- 11 :: Mrs Nupur Netan Sachdeva and Mr. Kapil Sachdeva A-0204 Ra
- 12 :: Neale Ramakant Mhatre/Loss Neale Mhatre A-0201 Raheja Ath
- 13 :: Anil Choudhary/Gaursav Choudhary A-0304 Raheja Atharva Sec

Possession Configuration

User Configuration

Site DG Phase Load Summary

R : 622 KW

Y : 622 KW

B : 622 KW

| | |
|---------------------------|---------------------------------|
| Group ID * | 1 |
| Meter ID * | 1 |
| Customer ID | 1 |
| Customer Name | Mr. Aditya Jain and Ms. Kanchan |
| Meter Type | End Consumer Meter |
| Shop/Unit No | A-001 |
| KWH Min Value * | 2 |
| KWH Max Value * | 25 |
| Load Sanction Mains (W) * | 13000.0 |
| Load Sanction DG (W) * | 2000.0 |
| Actual Mains Limit(W) * | 13000 |
| Actual DG Limit(W) * | 2000 |
| KWH Charges | 0.00 |
| DG Charges | 0.00 |
| Area(Sqr Feet) | 0 |
| Main Balance SMS Alarm | 100 |
| DG Balance SMS Alarm | 500 |
| Mobile No. * | 0 |
| KWH Main Actual | 2663.2 |
| KWH DG Actual | 8046.5 |
| Meter MF * | 1 |
| User Email | |
| Credit Limit (Main) | 0 |
| Credit Limit (DG) | 0 |
| Unit Rate (Main) | 0 |
| Unit Rate (DG) | 0 |
| Close Meter | <input type="checkbox"/> |
| Tariff1 | |
| Tariff2 | |
| Tariff3 | |
| Tariff4 | |

Add

Delete

Update



Pre-Paid Payment

[Logout](#)[Print New Series](#)

Pre-Paid Used

Pre-Paid Un-Used

Status

Payment

[⏪ Back](#)

Enter Card Number

Page 1 of 1

Status

Select
Period

From Date

11/11/2016

To Date

□

Meter
ID

658::Puran Chandra Joshi T3-043

Status

Select Period

From Date

□ □ □ □ □

To Date

11/1/2013

User

--Select User -- ▾

Status

Select
Period

From Date

□

To Date

| | |
|--|--|
| | |
|--|--|

Meter
ID

658::Puran Chandra Joshi T3-043

SMS Status

PES

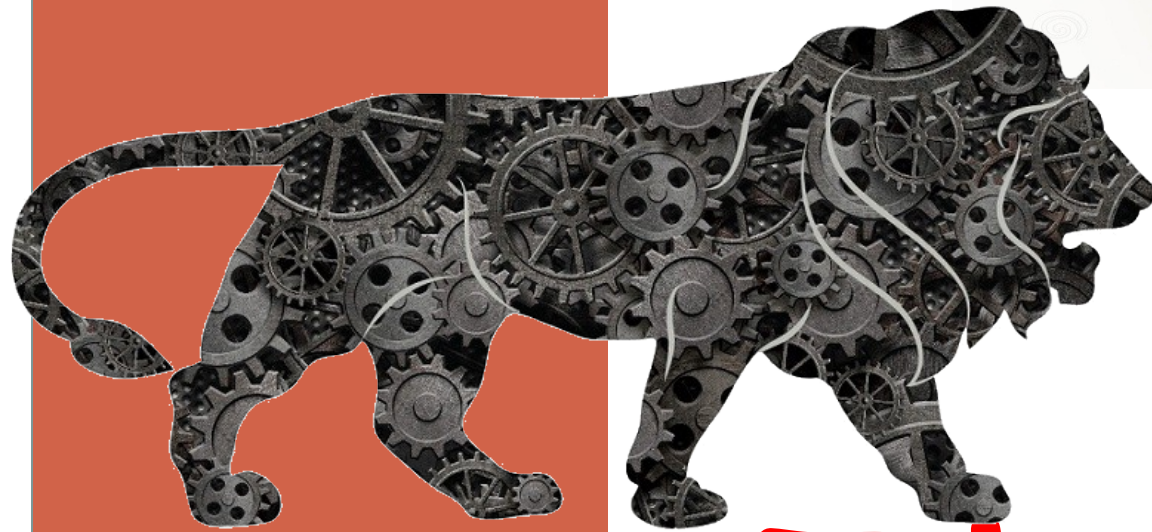
Energy Management System

Coupon

Logout

- New Pre Paid Cards
- Print New Series
- Pre-Paid Used
- Pre-Paid Un-Used
- Status
- Payment
- << Back

| | |
|------------------------------------|-------------|
| RAHEJA PREPAID CARD | |
| Card No : 244881701690 | |
| Meter Id : 17 Flat No. : A-0403 | |
| Card Expiry Date : | 10 Dec 2015 |
| Amount(Rs.) : 10 | |
| Selling On : 12/9/2015 14:43:15 | |
| Authorized Signatory | |



Thank