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 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).
“We don't believe in Sales only but in facility service to make a lifetime expression over market”
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

COMMON BUS BAR

In Home Display for each flat

Display Unit

One MODEM for each tower

DTRH

MODEM
Smart Prepaid Meter

Technical Specification.

- Standard: As per IS 13779
- Accuracy: Class-1
- Working temperature: -20~+65°C
- 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 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](http://www.peselectrical.in/site/admin)
2. Login to portal through desired User Id & Password.
For Operating software - Login through Internet Explorer
# Meter Status

**Energy Management System**

**Meter Status**

Last updated on: Dec 9, 2015 2:23PM
Site is on DG

<table>
<thead>
<tr>
<th>#</th>
<th>Customer Name</th>
<th>Mains KWH</th>
<th>DG KWH</th>
<th>Load</th>
<th>Pos. Date</th>
<th>Live Balance</th>
<th>Sanction Load Mains</th>
<th>Sanction Load DG</th>
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<tr>
<td>1</td>
<td>Mr. Aditya Jain and Ms. Kanchan Jain A-001 Raheja Atharva Sec-109, Gurgaon 122006, Haryana</td>
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<td>Subhash Rathee/Devinder Singh A-0102 Raheja Atharva Sec-109, Gurgaon 122006, Haryana</td>
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</tbody>
</table>
# Energy Management System

## Meter Configuration

### Group
- **Group ID**: 1
- **Group**: TOWER A

### Meter
- **Meter ID**: 1
- **Customer ID**: 1
- **Customer Name**: Mr. Aditya Jain and Ms. Kanchan Jain
- **Meter Type**: End Consumer Meter
- **Shop/Unit No**: A-002
- **KWH Min Value**: 0
- **KWH Max Value**: 2
- **Load Sanction Mains (W)**: 25000.0
- **Load Sanction DG (W)**: 10000.0
- **Actual Mains Limit (W)**: 2500.0
- **Actual DG Limit (W)**: 10000.0
- **KWH Charges**: 0.00
- **DG Charges**: 0.00
- **Area (Sq Feet)**: 0
- **Main Balance SMS Alarm**: 100
- **DG Balance SMS Alarm**: 500
- **Mobile No.**: 0
- **KWH Main Actual**: 2683.2
- **KWH DG Actual**: 8286.3
- **Meter MF**: 0
- **User Email**: 0
- **Credit Limit (Main)**: 0
- **Credit Limit (DG)**: 0
- **Unit Rate (Main)**: 0
- **Unit Rate (DG)**: 0
- **Close Meter**: 0

### Phase Load Summary
- **R**: 622 KW
- **Y**: 622 KW
- **B**: 622 KW

### Table

<table>
<thead>
<tr>
<th>Tariff #1</th>
<th>Tariff #2</th>
<th>Tariff #3</th>
<th>Tariff #4</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

### Buttons
- Add
- Delete
- Update
Pre-Paid Payment

Energy Management System

Card Status

Enter Card Number

Status

Meter Charging Status

Select Period
From Date
To Date

Meter ID
658: Puran Chandra Joshi T3-043
Status

Card Selling Status

Select Period
From Date
To Date

User
Select User
Status

SMS IN/OUT Status

Select Period
From Date
To Date

Meter ID
658: Puran Chandra Joshi T3-043
SMS Status
Energy Management System

Coupons

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 You