

Prepayment Metering Solution

PRE-PAID | POST-PAID | THREE PHASE | SINGLE PHASE | DUAL

| Bi-Directional Communication | In-Home Display | Head-End-System | Data Analytics Tools |

The present utility billing system is expensive, time consuming, and unreliable since it requires manpower for manual meter reading and revenue collection. Electricity access and usage is growing; however, electricity theft is common in developing countries and many households struggle to pay their monthly electricity bills on time especially the low-income and geographically dispersed consumers, making it difficult for utilities to sustainably supply them with electricity.

To address the given challenges, "pay-as-you-go" initiative based on providing total control to the consumer on how much electricity will be consumed in the coming days and weeks.. The strategy leads to a "win-win" solution. The consumer pays for what they will use and can adapt their future energy usage based on remaining balance; the utility provider is paid in advance for future consumption and can better forecast energy usage.

Sumeru Verde's prepayment energy meter, works much like pre-paid cell phone, consumer can purchase in advance any amount of electricity, at any-time.

Prepayment Meter with In-Home display

Our single phase and three phase prepayment energy meters provides modular, reliable and robust metering solutions for utilities and their customers for residential and commercial applications. It supports RF mesh, GPRS and PLCC communication technology. As with the entire line of Sumeru Verde's smart meters, the prepayment series of meters incorporates a highly reliable bi-directional communication network that delivers 99.7- 100% reliability. With readings at frequent intervals, prepayment meter collects power consumption and power quality data that is imperative to gain visibility of the distribution network.

Some of the common features are Metrological:

- Bi-directional measurement of active energy
- Four quadrant metering
- Meter with real time clock
- Encrypted card and STS protocol compliance
- Support multiple tariffs
- Configurable based on customer requirement

Dual Source Sense:

- Records consumption of auxiliary energy supply along with the conventional mains supply
- Supports separate load limits for utility supply and auxiliary supply

User friendly:

- In-home display to view the consumption
- Recharge through token system or online web interface
- Fixed charge / society charge calculation
- Displays consumption for last day, week and month
- Shows instantaneous load cost per hour
- Warn when credit energy is below limit
- Automatically disconnect when overloaded

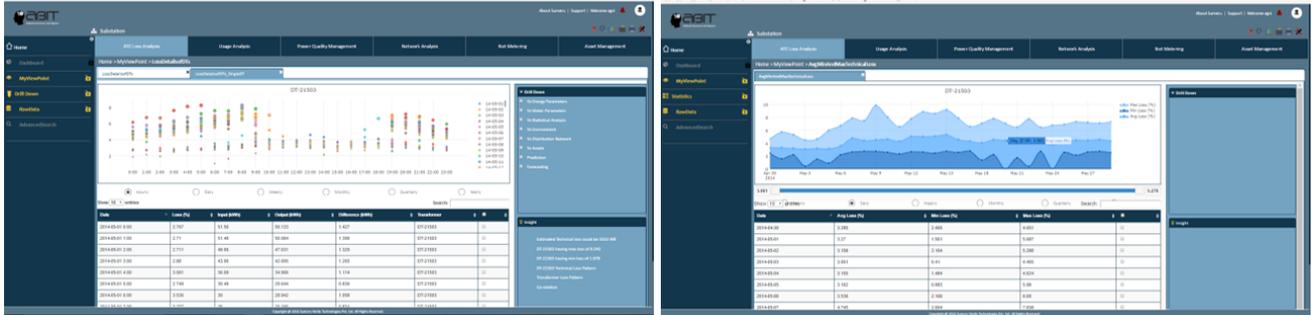
Key Benefits:

- No credit collection issue
- No one time deposit for new customers
- No monthly bills
- Real-time monitoring of energy consumption by the customer
- Increase energy conservation
- Better control on the cost of service and consumption by customer



Advanced Business Intelligent Tool System

The Sumeru Verde's Advanced Business Intelligent Tool System (ABITS) application is a highly scalable solution that provides utilities with the ability to manage metering data in one place. The big data Platform of ABITS manages high-volume data and use the information to perform advanced analytics designed to transform data into actionable insights. It provides all necessary information such as total consumption at transformer level from mains and generator, consumer SMS and mail statistics, present inactive/active connections and total number of recharges done over a period, and many more.



Stakeholders	Benefits
Consumer	<ul style="list-style-type: none"> Consumers can budgetary control the energy consumption and expenses Recharge system with option of mobile, online payment and token system Pay when it is convenient, rather than when a bill is due Reduced overall energy usage due to effective load control Accurate and transparent billing Access of consumption data and analysis from any location Power outage information Power quality information
Management	<ul style="list-style-type: none"> Monitoring and Consumption analysis of common area such as water pumps, passenger lift, street light, diesel generator and lights Manage auxiliary and mains electricity supply as separate load control Centralized billing system to reduce cost and time Minimize scope of tamper and theft of electricity System overload can be avoided Accessibility of reports such as log report, consumer data and tariff rates
Environment	<ul style="list-style-type: none"> Support renewable energy Reduce Carbon footprint

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