



EMS Invirotel Energy Management  
Smart About Energy

## Commercial Solution





EMS Invirotel Energy Management is a subsidiary of Voltex (Pty) Ltd which is owned by the JSE listed Bidvest Group of Companies. Invirotel was established 5 years ago in response to the growing need for smart energy management solutions locally and abroad.

### Vision

- Is to be a globally competitive leader in the provision of an end to end utility and energy management solution.

### Mission

- To continuously develop and implement smart electricity, water and gas solutions.
- To educate and empower people with accurate detailed real time information and control over consumption, energy saving, tariffs, billing and revenue collection.

Start **MANAGING** what **YOU CAN**  
**MEASURE...UNDERSTAND, IMPROVE and**  
**CONTROL.....INVIROTEL is the SOLUTION!**

- Understand all electricity and water through a centralized property utility system.
- Improve electricity and water management.
- Improve revenue collection.
- Manage tenants energy consumption.
- Control and reduce fraud and faults.
- Avoid overestimated bills.
- Cut cost and boost profit.

### Cost Structure

#### Once off Costs

- Audit.
- Hardware.
- Installation of Hardware.

#### Monthly Costs (per meter per month)

- AMI Software services - Meter management.
- Portfolio Management.
- Vending, Billing and Tariff Management.
- Profiling Reporting and Analysis.
- 24/7 National Call Center Support.



## Advanced Meter infrastructure

- ✓ Meter management.
- ✓ Portfolio management.
- ✓ Savings and recovery.
- ✓ Fraud and fault alerts.
- ✓ Tenant empowerment.



## Vending Management

- ✓ End to end vending solution.

### Options

- ✓ Credit Card.
- ✓ Internet Purchase (EFT).
- ✓ Mobile Purchases (E-Wallet).
- ✓ Vouchers (STS).
- ✓ Over the counter (Cash).

### Billing Management

- ✓ Comprehensive accurate billing schedules.

### Tariff Management

- ✓ Supports all tariff structures.



## Profiling

- ✓ Measure circuits and appliances every 5 seconds.
- ✓ Identify energy wasting circuit and appliances.

### Analysis

- ✓ Powerful real time statistics.
- ✓ Load and demand control.

### Reporting

- ✓ In depth secure reporting.
- ✓ Automated scenario planning and budgeting.



## Field Services

### Audit

- ✓ Thorough electricity and water assessments.

### Installation

- ✓ Professional installation and commissioning
- ✓ Issuing of (Certificate Of Compliance) C.O.C.
- ✓ Compliance with SANS 10142.

### Support

- ✓ 24/7 National call center.



## Consulting

- ✓ Utility management.
- ✓ Vending, Billing and Tariff management.
- ✓ Energy efficiency management.

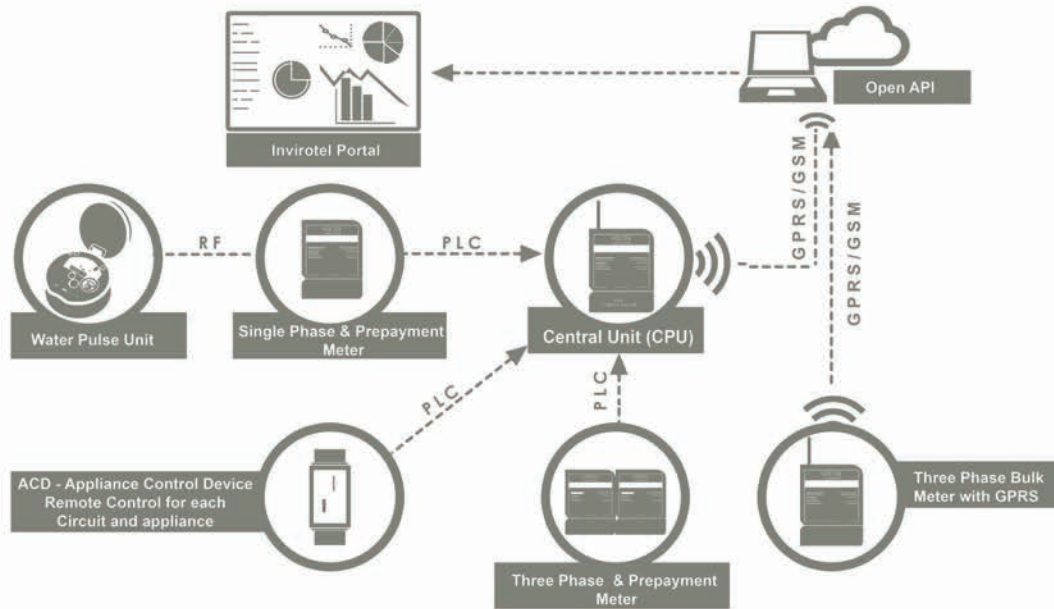


Available 24/7





The concentrator is a Central Processing Unit (CPU) for remote reading of electricity and water meters. The CPU communicates via Power Line Communication (PLC) to the electricity meters and via Radio Frequency (RF) to the water meters. The concentrator allows two-way communication access to all meters and can have up to 400 meters connected to it.



## Benefits of Smart Metering

- Two way communication.
- Remote disconnection /connection.
- Ability to limit power.
- Credit or prepayment meter remotely changed.
- Time of use (T.O.U).
- Anti-tamper.
- Anti-bypass.
- Customer interface unit (CIU) for in house display.
- Remote reading and programming.
- Two way instant messaging between customer and distribution company.

## Vending Solution

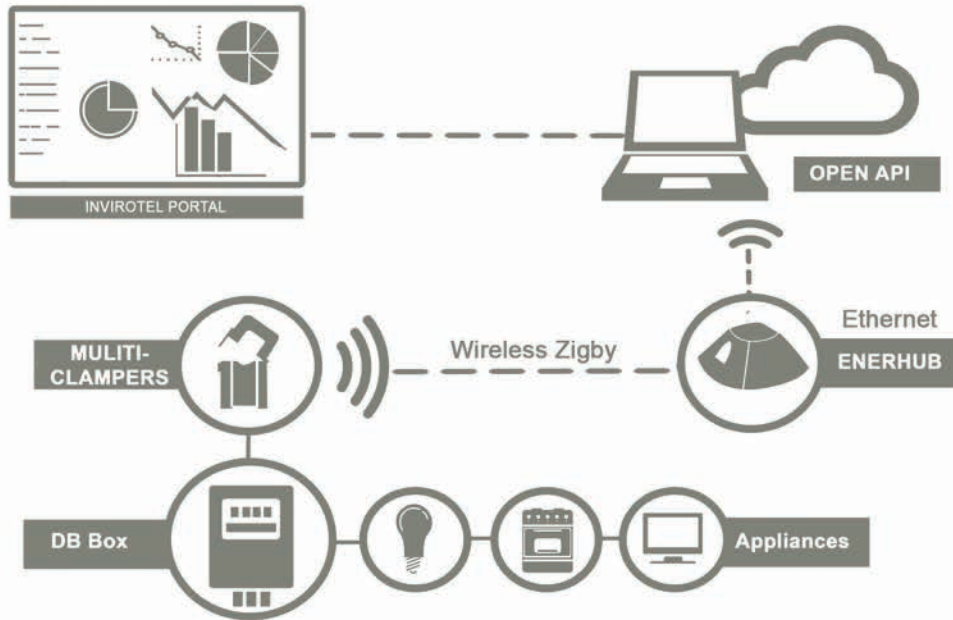
- End-to end solution.
- Real time.
- Comprehensive set of reporting.
- Automatic remote or manual recharging.
- XML Vend (If Required).

## Vending Options Include:

- Credit Card.
- Internet Purchases (EFT).
- Mobile Purchase (E-Wallet).
- Vouchers (STS).
- Over The Counter (Cash).



INVIROTEL owns proprietary technology for monitoring each and every circuit or appliance in a building. The hardware comprises of multi clampers (A set of 8 or 12 Current Transformers (CTs) which clip onto the circuit or appliance to be measured) as well as the Enerhub. The Enerhub is the communication gateway (wireless Zigby) from the Multi clampers and through to the Software Portal.



## Benefits of Circuit & Appliance Monitoring

- Measurements every 5 seconds.
- Power, consumption, power factor, reactive energy, carbon emissions, frequency & voltage are all measured.
- Find out consumption for each and every circuit or appliance.
- Budget and plan your electrical consumption going forward.
- Accurately identify energy wasting circuits and appliances.
- Implement energy saving measures.



## For More Info & Pricing Please Contact



16 Davies street, Doornfontein  
Johannesburg, 2000  
South Africa



+27 (0) 11 402 0251



+27 (0) 86 525 8262



info@invirohub.com



www.invirohub.com  
www.voltex.co.za



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