EMS Invirotel Energy Management

Smart About Energy

Company Profile

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EMS Invirotel Energy Management shareholders are Voltex (Pty) Ltd which is owned by the JSE Listed Bidvest Group of Companies and PDEV(Professional Development Institute) providing enterprise software development. Invirotel was established 5 years ago in response to the growing need for smart energy management solutions locally and abroad. Invirotel was officially launched in 2011 after 3 years of Research & Development.Invirotel was established for the setting of new standards in the green technology sector.

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 and water solutions.

- To educate and empower people with accurate, secure, detailed real time information and control over consumption energy saving, tariffs and revenue collection.

Values

- Integrity

- Transparency

- Excellence

- Innovation

Stanley Green- Voltex MD/Invirotel Chairman

Stan is a non-executive Chairman of the company and Managing Director of Voltex. Stan has been with Voltex for over 20 years, holding various roles including Chief Legal Officer Stan holds a BA LLB qualification from Wits University.

Eric Immerman-Financial director Voltex/ Invirotel Board

Eric is a chartered accountant who works at Voltex as Finance Director, and provides financial administration support to Invirotel. Eric has over 30 years of experience in senior financial manage ment positions.

Lance Manala- Maredi CEO/ Invirotel Board

Lance is the Chief Executive of the company and chairman of Maredi Telecoms Group of Companies. Lance is the founder of Maredi Telecoms and has held various senior executive and non-executive positions in different industries. Lance is entrepreneurial, hands-on and passionate about genuine economic transformation. He holds a NHD: Chemical Engineering from Cape Peninsula University of Technology; a Post Graduate Diploma: Industrial Administration from the University of Cape Town and has attended the Board Leadership Programme with Gordon's Institute of Business Science (GIBS).

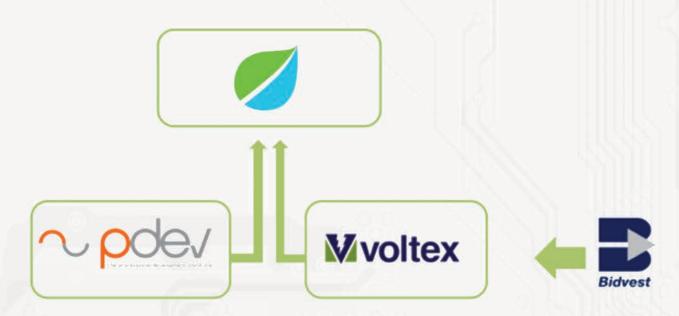### Ayal Rosenberg-Invirotel MD & Board/PDEV CTO

Ayal is the Chief Technology Officer of Invirotel and provides broader support to the Maredi Telecoms Group of Companies. He was a Microsoft MVP for Architecture and a previous Regional Director for MS SA. He was part of the Microsoft Patterns & Practices Smart Client and CAB Forums based in Redmond. Ayal has been involved in the design, architecture and deployment of large-scale enterprise systems for the largest blue-chip companies in South Africa. In the past five years Ayal has been involved in combining software with green initiatives and smart energy.

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Professional Development Insitute (PDEV) (Pty) Ltd

PDEV is an enterprise software development company majority owned by the Maredi Telecoms Group. PDEV has developed enterprise software systems for leading South African blue chip companies and is a recognized leader in software innovation. The INVIROHUB software platform was developed by PDEV.

Voltex(Pty)LTD

(Bid Electrical) is a fully own subsidiary of the JSE listed industrial and services conglomerate - BIDVest (Pty)Ltd. Voltex is Africa's largest distributor of electrical equipment and appliances with an extensive branch network. Voltex has an extensive branch network throughout South Africa with a presence in every province and every major city in the country.

The Invirotel skills development approach is based on internship programs with FET Colleges in South Africa. Mentorship and training is offered to selected unemployed graduates who join the internship program with Invirotel. Some colleges that are represented are South West Gauteng,Sekhukhune and Ekurhuleni East.

The program started in the beginning of 2013 where 12 graduates have been further trained within their relevant studies on IT, electrical as well asmarketing. After completing their internship program nine students have been offered permanent employment with Invirotel and others have moved tovarious organisations across the country. Transnet have seen two of the interns joining their team and one intern has joined the internal
Voltex lighting division.

Some of Our recruited sudents

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INVIROTEL is an integrated technology that incorporates smart meters for electricity, water and gas as well as proprietary software to provide comprehensive utility, energy and revenue management solutions for Utilities, Municipalities, Commercial Properties and Light-Industrial clients.All INVIROHUB products are managed, maintained and controlled from a centralized digital hub accessible over any Internet connection 24/7.Access is simple, secure, fast and mobile giving all clients and their clients real time information and control over :

Advanced Meter infrastructure

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

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.

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

- Support all tariff structures.

Available 24/7

Consulting

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

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.

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INVIROTEL provides a wealth of tools for analysis, reports, alerts and control to both the Utility and the end-user Customer. Utilities can get real time data from a circuit level right up to an entire region or country.

End-user Customers can view their consumption and bills in real time and at all times. Internet and all smart mobile devices are supported.

INVIROTEL is a proudly South African, world-first Internet of Things eco-system for smart energy. INVIROTEL uses a secure, cloud-based, big-data measurement, verification, aggregation, master meter vending, tariff and billing management system.
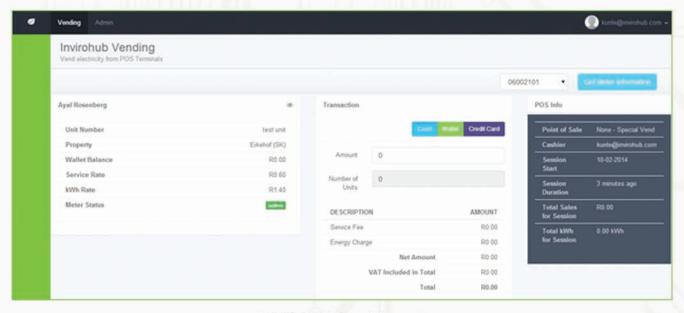
Secure – data streams into the system from connected devices according to industry standard security protocols.

Cloud-based – The system is available through cloud computing, eliminating substantial infrastructural and maintenance costs whilst guaranteeing 24/7 availability.

Big-data – The ability to store and process in real time massive amounts of data is the hallmark of successive modern enterprise systems. Google, Facebook, LinkedIn and Twitter are examples of companies that can processes peta-bytes of data in minutes. INVIROTEL uses technologies pioneered by these companies to manage big data.

INVIROTEL stores, processes and handles massive amounts of electricity data from any device that measures and monitors utility data and especially electricity usage data.

INVIROTEL is a platform for virtualizing a utility. Large and small utilities use the platform for all their monitoring, measuring, billing, client-service and analysis functions of electricity consumption.

INVIROTEL Dashboard

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INVIROTEL is product agnostic and supports all compliant smart meter, energy monitoring and leakage detection products and sensors.

Before a meter or sensor is integrated into INVIROTEL it is tested both in the laboratory and in the field.

INVIROTEL has relationships with local and international suppliers and manufacturers of smart metering, sensor and leakage detection solutions and hardware. These suppliers and manufacturers work together with INVIROTEL to ensure that their hardware and protocols integrate with INVIROHUB.

POINT OF DELIVERY

Hardware to monitor, verify, control, measure and bill at point where utility delivers electricity. Main target market here is Eskom and municipalities.

SUB METER

Hardware to monitor, verify, control, measure and bill behind the point of delivery mainly in multi-tenanted point of delivery sites. Main target market are property owners and utilities requiring load providers for demand side management programs.

CIRCUIT/APPLIANCES

Hardware to monitor, verify, control and measure individual circuits and appliances behind sub-meters or utility meters. Required for any serious energy planning and saving programs.

Some of Our Product Range

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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