

# SMART ENERGY VISION

Integrating energy efficiency and green energy



## Cloud Based, Real-Time Energy Management System

**SMART ENERGY VISION** is a Cloud Based, Real-Time Energy Management System, offering the most complete portfolio of energy management solutions.

**SMART ENERGY VISION** represents innovative power management technologies on an Oracle IT platform. It consolidates energy usage information to help customers accurately measure and monitor all electric, natural gas, water, sewage, and teleheating utility services along with green and renewable energy resources, enabling the maximization of energy efficiency, reliability and cost control.

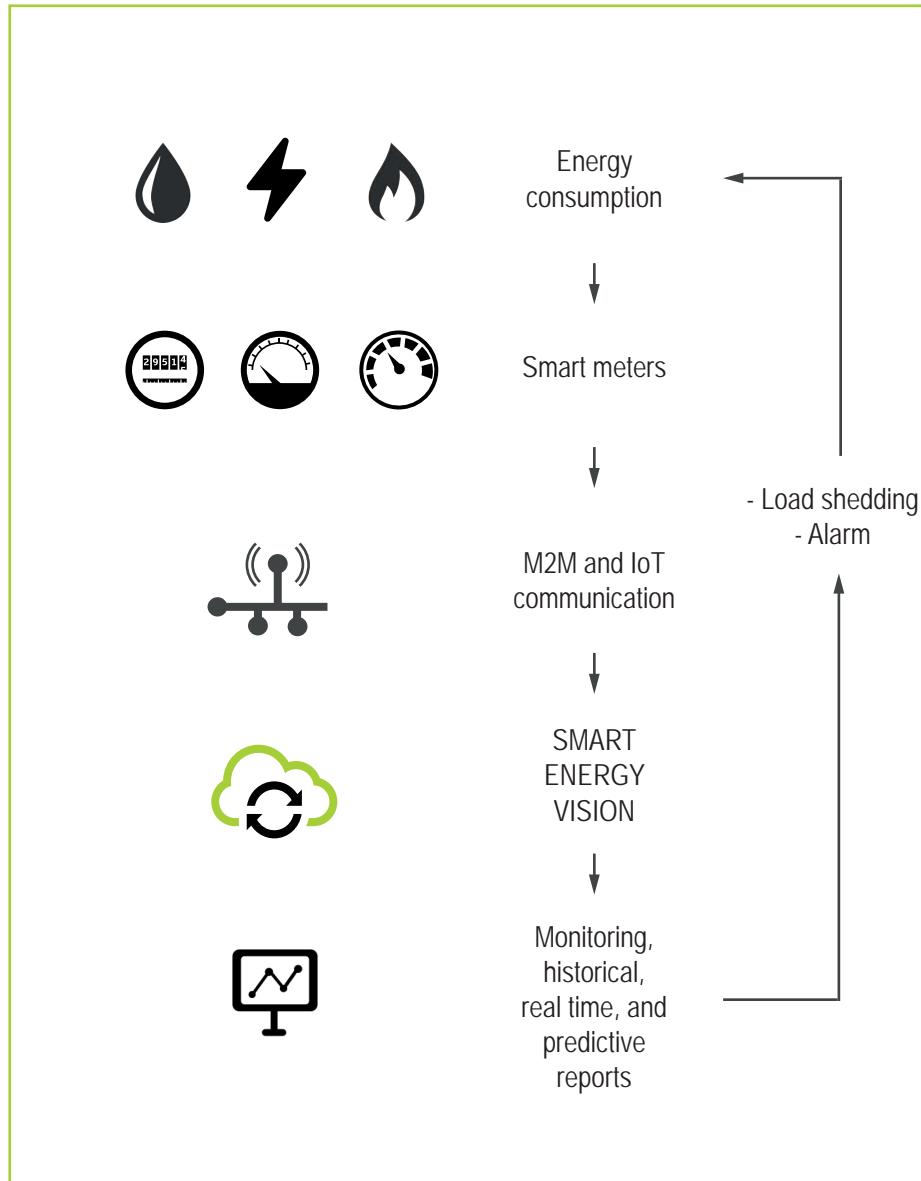
Most people – even company managers and executives – only have a vague idea of how much energy they are using for different purposes, and what sort of difference they could make by changing day-to-day behavior, or investing in efficiency measures.

Energy usage - most of the time - is invisible to the user: that's why the importance of feedback is so great. Generally, the norm of savings accountable directly to information from an associated energy management system ranges from 5-15% without any additional investments.

The role of the SMART ENERGY VISION energy management system is to provide a clearly-understood point of reference for improved enterprise own cost calculations, and for fixing targets and objectives to meet the policy of ISO 50001 energy management systems.



SMART ENERGY VISION also allows the measurement of energy production from renewable and green energy sources.



SMART ENERGY VISION is a platform for measuring real-time consumption data from virtually any type of energy meters, and even green energy generation. Local PLCs combined with Future Energy's advanced redundant OPC technology enable the collection of measurement data from the newest smart meters and older models, even in industrial, EMI-polluted environments.

Exploiting the built in M2M and IoT communication technologies, the measured and consolidated data is transferred to a Cloud data warehouse, or a local server.

SMART ENERGY VISION provides customized energy usage reports and analyses, and scheduled reports for management purposes - for example carbon footprint, KPI, Green House Gas reports. Using the real time analysis tools, SMART ENERGY VISION is able to provide feedback directly to the energy consuming devices to commence load shedding, or notify the staff to take action.

SMART ENERGY VISION is scalable from a single facility to an entire multi-site enterprise. SMART ENERGY VISION is not only available as an energy management system, but also as a comprehensive energy management service - providing the scheduled reports and the web technology based intelligent dashboard analysis tools without implementing an IT infrastructure.



SMART ENERGY VISION provides live and historical dashboards with visual graphing capabilities to create Greenhouse Gas reports, CO<sub>2</sub> emission calculations, energy demand optimization, and other custom Key Performance Indicator (KPI) evaluations.

SMART ENERGY VISION provides advanced analytical tools for supporting management and engineering decisions to achieve more efficient energy usage. Manufacturing companies may use the information to enhance the energy efficiency of production lines. With precise measurements, more accurate energy cost allocation can be calculated for controlling purposes, which SMART ENERGY VISION is able to export directly to an ERP system.



**SMART ENERGY VISION** represents a fast and quantifiable return on investment.



## About the development

Seeing the opportunities provided by the growing number of IoT (Internet of Things) devices and infrastructures in use, Future Energy Ltd. and R&R Software Co. Ltd. embarked upon a joint venture - backed by EU financing - to create a Cloud-based Energy Management System.

The result is the SMART ENERGY VISION energy management system, already in use by the H&M (Hennes & Mauritz AB) fashion clothing retail shop network in Hungary, and Kiswire Szentgotthárd Ltd, a technology leader in advanced high-strength, galvanized and coated steel products.



R&R Software Co. Ltd. is a Hungarian software house, specialized in developing and delivering ERP, BSS, CRM, SCM systems.

R&R Software's experience of 29 years was crucial in the development of the data collecting, consolidating and processing infrastructure (cloud data warehouse), and the analytical interface of the SMART ENERGY VISION energy management system.



Future Energy Ltd. is a Hungarian company, specialized in energy efficiency consultancy, and developing energy management systems based on the ISO 50001 standard, exploiting the advantages of smart metering systems.

Future Energy was responsible for the concept development, the implementation of the smart metering infrastructure, and the energy strategy development behind the SMART ENERGY VISION energy management system.

## Investor relations

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