

Future-Proof: Scalable and IoT-Ready

WISX IoT Platform deployed for Smart Energy Resource Management is a highly adaptable and scalable unified platform. It easily integrates with other modules or applications and serves as an important platform for cities aspiring to transform with its enhanced value beyond energy management. The interconnected WISX IoT-ready infrastructure can be deployed as a shared network for various smart connected sensors and devices to deliver other city services such as monitoring of noise levels and video surveillance. It can also be applied to various industry verticals (such as public safety and security, intelligent transport, etc.) to benefit residents.



Dashboard view of all meter status

Global Track Record

We have a proven track record in deploying more than 15 million wireless sensors and smart solutions that power and transform cities worldwide. Our solutions help to improve street light management, city planning and operational efficiency, resulting in energy savings essential for sustainable and liveable smart cities. Our global footprint covers various countries such as the UK, the US, Canada, France, New Zealand, Brazil and India.



GIS Map view of all deployed sensors

WISX IoT Suite of Solutions and Products

WISX IoT solutions help smart cities to manage multiple city services on a common platform. The platform leverages best of breed technologies and standards to facilitate data exchange and analytics as well as generate greater insights for predictive actions to be taken to improve efficiency of city services and operations.

Some of our WISX IoT solutions include

- WISX Smart Street Lighting
- WISX Smart Indoor Lighting
- WISX Smart Energy Resource Management
- WISX Smart Water Resource Management
- WISX Smart Environment Monitoring
- WISX Smart Waste Management
- WISX Smart Lift Monitoring

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Smart Energy Resource Management



WISX Smart Energy Resource Management

Global climate changes and greater demand from cities for energy savings have propelled the use of smart technologies, sensors and devices to better manage the consumption of energy. By leveraging Internet of Things (IoT), smart metering and advanced analytics, city operators are able to remotely monitor and manage their energy consumption in real-time and save on their bills while optimising operational efficiency as well as reducing manpower and maintenance costs.



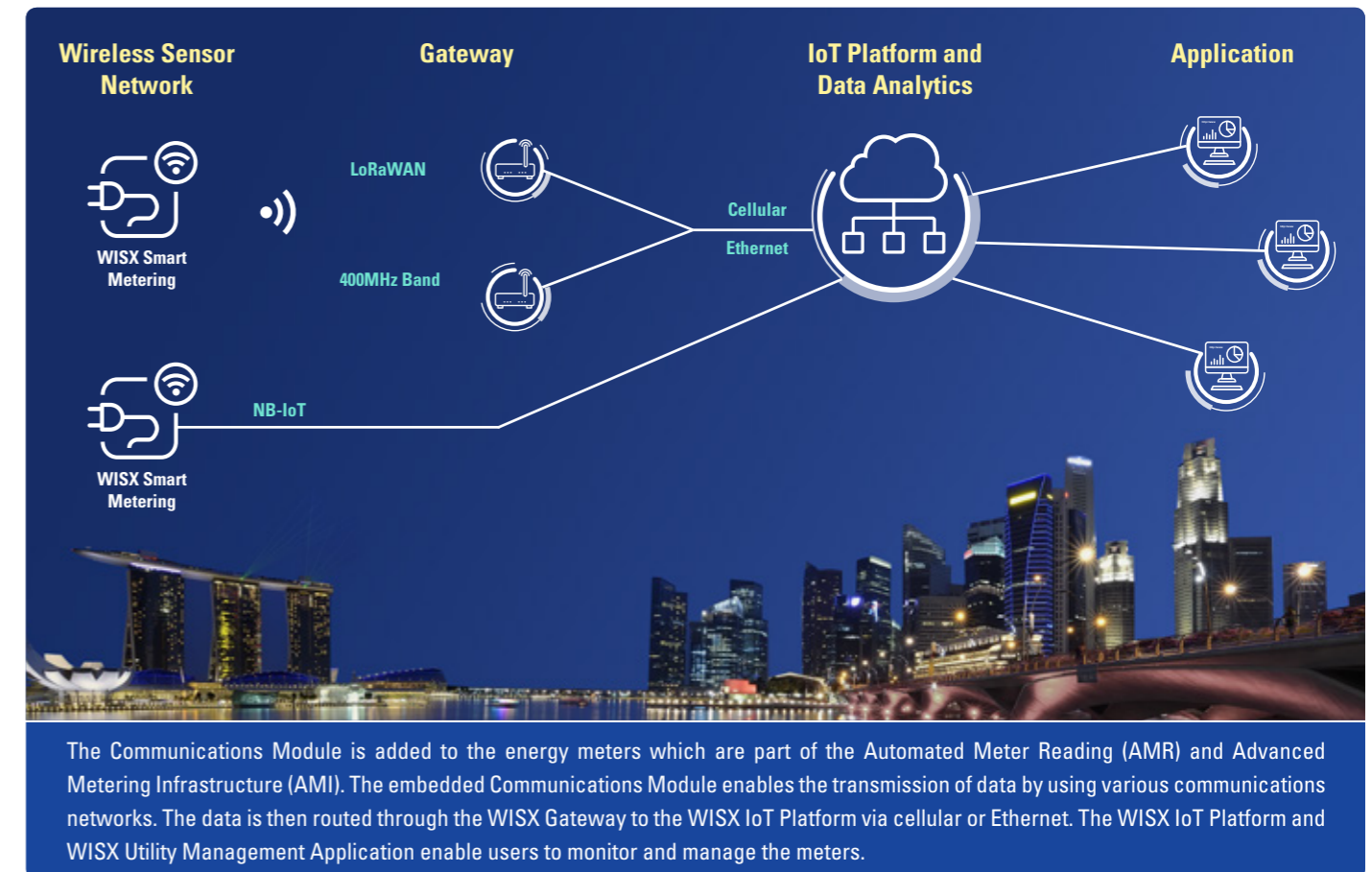
Smart, Efficient and Proactive Key Highlights

WISX Smart Energy Resource Management System provides an ideal end-to-end advanced metering solution on a single platform to deliver full awareness of meter performance while intelligently monitors and controls them remotely, to enhance operational efficiency, maintenance and service delivery to residents. The collected data from smart sensors and devices is analysed and presented to the operator in an easy-to-understand format.

Consumption patterns are generated and used to achieve cost savings against raising energy bills. It can also be used to predict potential problems for enhanced preventive and predictive maintenance. Our system alerts and notifies operators of power failure or water leakage to minimise downtime and disruptions. Energy companies can remotely collect meter readings and save on manpower cost.



- Unified and Versatile**
 - Supports multiple wireless communications networks on an integrated IoT platform (e.g. LoRaWAN, NB-IoT and 400MHz Band)
- Cost and Energy Savings**
 - Collects and analyses consumption data to optimise energy savings
 - Easy integration with existing meters without incurring additional cost
 - Enables remote collection of meter readings to save on manpower cost for energy companies
- Enhances Operational Efficiency**
 - Provides status of meter performance on a real-time basis
 - Real-time monitoring and alert of meter operation status and power failure
 - Remote access to sensor performance through intuitive application
- Optimises Maintenance and Resource Management**
 - Automatic fault alert and notification to maintenance team
 - Preventive and predictive maintenance
- Enhances Security**
 - Secure and robust end-to-end data encryption
- Future-Proof and Scalable**
 - Supports future add-ons of meters and smart city services and applications for various industry verticals (e.g. smart street lighting, utilities monitoring, lift monitoring and public safety and security)



Key Components

- Software**
 - WISX IoT Platform
 - WISX Utility Management Application
- Hardware**
 - Embedded Communications Module
 - Gateway
 - Network Switch

Features	Benefits
<ul style="list-style-type: none"> • Intuitive application 	<ul style="list-style-type: none"> • Users can access the system anytime and anywhere
<ul style="list-style-type: none"> • Detailed floor plan view of all meters 	<ul style="list-style-type: none"> • Visibility of meter locations and energy consumption
<ul style="list-style-type: none"> • Tracking of energy consumption over time 	<ul style="list-style-type: none"> • Overview of meter status to support troubleshooting, repair, maintenance, activities, etc.
<ul style="list-style-type: none"> • Real-time monitoring, alert and notification of power failure (last mile feature) 	<ul style="list-style-type: none"> • Reduces downtime and disruption
<ul style="list-style-type: none"> • Secure AES 128 or 256 data encryption 	<ul style="list-style-type: none"> • Prevents unauthorised interruption during operation
<ul style="list-style-type: none"> • Supports multiple communications networks 	<ul style="list-style-type: none"> • Users can deploy any communications network to meet their operational needs
<ul style="list-style-type: none"> • Future-proof wireless solution to provide for scalability 	<ul style="list-style-type: none"> • Minimal infrastructure cost for future add-ons of new meters or other IoT applications