



ELECTRICITY MANAGEMENT SOLUTION

Electricity Demand Management Information System

ELECTRICITY INFRASTRUCTURE & DEMAND MANAGEMENT

The smart management of electrical infrastructure is a prerequisite for sustainable socio-economic development.

Authorities responsible for supplying or distributing electricity, such as municipalities, need to optimise the resources available and maintain infrastructure. To do so, the relevant decision-makers and operations personnel need to be equipped with up-to-date information that enables them to execute effective and efficient electricity demand management.

iMQS's proven software solution helps facilitate access to such critical information.

KEY CHALLENGES

There are a host of daily challenges relating to the consumption and management of electricity demand, but the main ones include:

- An inability to identify and resolve the illegal consumption of electricity.
- Inaccurate views on consumption/demand trends which ultimately leads to poor planning of infrastructure development and upgrades.
- Accurate information is not available for identifying and managing high-consumption users.

WHO WE ARE

iMQS constructs business management solutions for owners of infrastructure asset portfolios, to effectively realise their strategic objectives.

Our team of management consultants are committed to conceptualising solutions that enhance the value of your organisation's physical assets, while you focus on the work that matters – delivering key services to your valued customers.

We believe that healthy assets create a healthy society and impacts the lives of people, at all levels, from all communities, on a daily basis.

iMQS has provided proven Infrastructure Asset Management (IAM) Solutions & Services to government and private organisations for more than 20 years, locally and internationally.



KEY FEATURES

OPTIMISED OPERATIONAL PROCESSES



The solution provides key information to assist optimised decision-making, planning and maintenance deployment while enhancing efficiency and ensuring seamless user experiences.

ELECTRICITY NETWORK SPATIAL INTEGRATION



The spatial integration of data allows for a better understanding of the distribution and location of numerous factors pertaining to electricity consumption within municipal boundaries such as electricity demand data.

ELECTRICITY CONSUMPTION



Our solution provides powerful features for tracking electricity consumption empowering users to monitor usage in real time, helping them make smarter decisions and reduce their energy costs. Easily track metrics such as demand, consumption, usage trends, consumer information and consumption history.

ANOMALIES / EXCEPTIONS



Users can easily identify unexpected spikes in electricity usage, enabling them to take action and save on energy costs. Exceptions such as variations in demand (a sudden drop in demand from a specific stand) or identification of meter anomalies provide insights for the management of an electricity network.

BILLING AND TARIFF DATA



Stay on top of your revenue collection with our comprehensive reporting, providing you with clear insights and detailed summaries to help you manage your electricity network effortlessly. Easily identify unmetered stands and assign the correct tariff to the stand.

REPORTING



Data means nothing without context. The primary capability of IMQS is the rich and customisable reporting features it offers. The IMQS solution allows you to generate and access reports that facilitate planning, tracking and transparency.

SMART METER INTEGRATION



Keep track of the operational status of your network by receiving regular live updates with our smart meter integration solution. By gathering data from sensors linked to your network, we empower you with valuable information to enhance your operations management. Each cluster of sensors is represented by a symbol on the map and provides users with intelligence to make effective decisions.

TECHNICAL AND REPLACEMENTS COST DETAILS



Detailed properties of each electrical asset such as assessed risk factor results, Technical Specifications, Location, Asset Age, and Asset Type are displayed on our platform. Future planning and budgeting are enhanced by displaying replacement cost of each asset and the Remaining Useful Life. Our reporting solution provides a prioritised list of electrical assets for replacement, empowering you to make informed decisions on how to allocate funds.

KEY FEATURES

RISK FACTORS

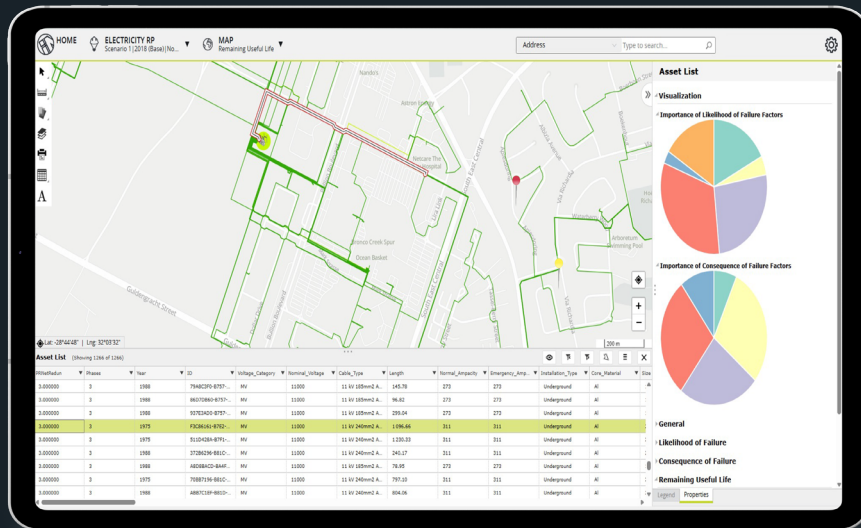


Our solution goes beyond analysing the current condition of your assets by also analysing and providing critical information regarding risk factors such as Likelihood of Failure (LF), Consequence of Failure (CF), Remaining Useful Life and Replacement Priority. These risk factors empower clearer decision-making in the maintenance and replacement of your assets.

DATA

The information required to calculate electricity demand comes from a Municipal Treasury Database (or similar source of data) where monthly electricity meter readings are stored, along with stand-related information.

For optimised Electricity Demand Management (EDM), the right people need to be equipped with the relevant information at the right time. Our solution allows you to digitise your entire electricity network on one platform while providing customisable data views and delivering relevant information pertinent to specific roles within the electricity demand cycle.



BENEFITS

- Comprehensive digital views of your current and future (master planning) electricity networks
- Assign billing data to a stand or consumer and effortlessly identify related anomalies
- Easily access key information regarding your electricity network
- Promote responsible and informed decision-making, optimised planning, and maintenance deployment
- Provide accurate information and help identify high-level consumption
- Identify existing gaps in the connection and supply of electricity to consumers
- Quickly access the replacement costs of your asset
- Easily determine the most critical areas requiring replacement
- Dynamic reporting for enhanced visibility and communication

TECHNOLOGY

The IMQS web-based platform is highly flexible and enables effective infrastructure lifecycle asset management. Due to its high level of configurability, IMQS offers a highly flexible platform able to produce tailor-made solutions. Digitally transform your organisation with IMQS.

TECH BENEFITS

- Configurable
- Customisable
- Cloud-based
- User-friendly
- Fast and secure
- Seamless deployment



CONCLUSION

The IMQS Electricity and Electricity Demand Management Solutions offer a powerful spatial snapshot of current electricity infrastructure to enable more accurate planning for future demand, as well as ensure that the right investment is made, at the right time, for the right areas.

Electricity network data is used to create a data model of the existing electricity infrastructure, which can be viewed from various angles to assist in identifying existing gaps in the connection and supply of electricity to consumers. This makes the work of stakeholders at various levels more manageable and cost-effective as they find themselves better equipped to answer key questions, such as:

- Where are the infrastructure assets located?
- What is the value of these assets and the individual asset components?
- Can the existing infrastructure meet future demand?
- What weaknesses exist that may impact current and future service delivery?

Where empowering stakeholders to make informed decisions, and better management and maintenance of crucial infrastructure assets is the desired result, IMQS offers the tools to achieve it.

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IMQS