



Data Analytics in
energy management
for PMT Smart Metering (Smart Buildings)



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Power Meter Technics (Pty) Ltd or PMT is a smart metering company with an exclusive focus on utility metering. They provide an innovative range of intelligent metering solutions across the entire value chain.

PMT reached out to OQLIS to harness analytics to help their clients to see how much

was spent on electricity, including heating, and cooling, as well as equipment and office space consumption. Other utilities such as water and gas also needed measuring and visualisation.

Their clients also needed to understand where and how exactly wastage occurred to subsequently reduce energy costs.

The Challenge

Plant and Utility Managers receive energy and water bills on buildings for electricity, for various usages. But considering the size of industrial buildings, it may be hard to tell where energy is used inefficiently and where you could save money to impact your bottom line.

These critical pain points needed to be addressed:

- Our client was **spending hours looking for details** about their energy consumption and generation on their production lines.
- They were **unable to measure their usage**, carbon footprint, and sustainability **in real time**.
- They **wanted to reduce the time, money, and resources** it took to identify, resolve, and report on issues in the production of their products.
- They **needed to report on and measure their sustainability model** and green efforts for corporate reporting and best standards.

The OQLIS Solution

OQLIS identified **6 ways** in which data analytics and reporting could solve their problems:



1 Measure energy consumption and generation in real-time



2 Create alerts via email, WhatsApp, SMS, or voice to notify managers where there are issues in production or anomalies detected.



3 Create intensive reporting & forecasting models that show insight and derive actionable decision-making.



4 Daily monitoring of the production line to spot trends, patterns, and anomalies.



5 Measure carbon footprint and sustainability for corporate reporting and standards.



6 Identify cost-saving metrics based on insight and data.

The benefits for the customers were significant:



They now **understood their business energy data better** than ever before, through unique insights that would've been impossible to find manually.



They started to **save money and energy** just by paying more attention to the insights delivered by energy analytics.



Duties were streamlined for plant engineers or utility managers by managing water and gas usage, as well as power generation.



Automating time-consuming activities helped save time and allowed them to focus on more important tasks.



They now **adapted quickly and nimbly to small changes** in the business environment.



Customer experience showed significant improvements.

Remarkable Results

The main goal for PMT was to be able to draw major insights into their billing processes, which was successfully achieved. For the first time, their clients had full and accurate visibility over their energy consumption and generation.

Alerts made time resolution quicker than ever before, as Plant Engineers and Utility Managers could spot problem areas and anomalies at a glance at their dashboards. Tangible cost-saving metrics were implemented to improve carbon footprint and sustainability scoring.



We use OQLIS for the generation of enhanced detailed data visualisation dashboards of our energy and water, gas and other metering data for large industrial customers who require detailed daily consumption statistics on **one easy to use platform.**



Joe Ross,
Managing Director, PMT

Dashboard metrics included:

Energy Consumption Heatmap

Daily Energy Consumption

Average Consumption per Department

Monthly Cumulative Consumption (kWh)

Change in Consumption

With large amounts of money and energy consumption to be saved, can your business afford not to invest in game-changing energy data analytics?

Reach out to a data analyst today:

hello@oqlis.com

[Check out the dashboard](#)

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