



THE POWER OF REAL TIME ENERGY INSIGHT

Measurement & Verification Service

Technology partner



Light your world

Real time energy insights

Measure & verify energy efficiency upgrades

For complete peace of mind

Sylvania's Smart Services are designed to provide you with a total solution service. From Audit and Design, through to Project Management, Installation, Measurement & Verification and Commissioning, Sylvania's Smart Services work for you.

Our Measurement & Verification (M&V) service is powered by the well established technology provider, **Simble** and their specialised visualisation platform SimbleSense. Technology partner





Sylvania's Measurement & Verification service captures the real time energy consumption of your existing and new lighting solution, allowing you to verify the savings achieved against the target ROI. The service includes a 6-channel energy meter, 60A CT clamps as well as an annual subscription that enables you to oversee results remotely through the online platform.



LED lighting upgrades

LED lighting provides the highest quality light and is currently the most energy efficient source of lighting on the market.

Lighting is responsible for approximately 20% of energy consumption in commercial buildings, presenting a strong case for replacing outdated lighting systems with LED lighting.

Energy visualised

Sylvania's Measurement & Verification service provides a customisable energy monitoring platform that brings energy data to life via energy meters.

It converts real time data into powerful analytics helping users to make sense of their energy consumption.



Energy monitoring

The online platform of Sylvania's Measurement & Verification service visualises the change in energy parameters including cost (based on time of use), kWh, kW, kVA, Power Factor, Max/Min Current, Max/Min Voltage and CO2-e.

Each zone can be separately monitored, with similar types of lighting grouped into loads.

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3 STEPS TO DEMONSTRATING RETURN ON INVESTMENT

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- 1. Establish a baseline of energy data prior to LED lighting installation
- 2. Capture detailed, circuit level monitoring for zone specific cost allocation
- 3. Demonstrate cost savings and the return on investment

CASE STUDY

The commercial premises in the following case study underwent a total site upgrade including T8 troffers, metal halide high bays and emergency lighting. The M&V tool enabled them to capture detailed data, establish a baseline and demonstrate a clear return on investment.

TIME SERIES

IMPACT OF THE LED UPGRADE

The time series view visually demonstrates the savings achieved after LED installation and the user can also zoom in on the energy consumption of specific areas.



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M&V ENERGY REDUCTION

The Measurement and Verification (M&V) function within SimbleSense allows users to clearly observe the benefit of the energy conservation project and report this to other stakeholders.

ESTABLISHING A BASELINE

The M&V function shows a baseline from before the upgrade and then compares it to the corresponding period after the upgrade.

In the example below, you can see the two low consumption days align as Saturday and Sunday, comparing like for like. The period chosen can be months or day to day comparisons of 5 minute periods.



This screen displays the change in kWh consumption for the chosen days with a summary table below showing the individual contributions of the different areas as a gross and % change.

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M&V COST REDUCTION

M&V showing cost reduction reflects the actual savings based on the time of use tariff data, giving a more accurate ROI. Monetary savings can differ from the kWh reduction depending on patterns of use between peak and off-peak. Users have flexibility with time periods for comparison by year, month, day, hour or minute.



M&V REDUCED KVA

The direct benefit from the peak kVA reduction and hence the maximum import capacity for a site can be compared. If a customer is charged for peak demand, the additional savings from the upgrade can be directly calculated.



Simble



CONCISE REPORTS

Sylvania's Measurement & Verification tool provides reports that are easy to understand and highlight the clear benefits of LED upgrades.

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WEEKLY REPORT

This graph shows the breakdown of data from a commercial site with circuit level monitoring beyond lighting.

The Measurement & Verification report provides all features and graphs supporting the business case for undertaking further energy efficiency projects.











MEASURE & VERIFY YOUR NEXT ENERGY EFFICIENCY UPGRADE OVERSEE RESULTS REMOTELY THE POWER IS IN YOUR HANDS!

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