

APPLICATION NOTE – Non-Food Retail Facilities

Up to 25% Energy Saving at Retail Stores using Multiple SinuMECs

THE CHALLENGE

In commercial (non-food) facilities, usually, the significant consumers of electricity are HVAC systems along with lighting, which turn to LED over the past few years. Such typical facilities include *Do It Yourself (DIY) stores, fashion outlets, shopping centers, office buildings, fitness centers* and more. To address the high cost issue, organizations' energy managers search for effective solutions to reduce electricity expenses, gain visibility to energy usage breakdown, and prevent potential store downtime.

SOLUTION

PowerSines has a long-term track record of helping non-food retail stores and facilities save energy, by using SinuMEC CSD. In the past, SinuMEC's main application was for escalators and industrial motors, yet over the past year SinuMEC's patented technology had been adapted and optimized for **use on HVAC systems, now saving up to 25% of their energy use.**

Furthermore, SinuMEC is now **integrated with PowerSines' new, innovative, Energy Hub**, which enables increased saving and effective management by using varied sensors, sub-meters, load control, and more, to provide energy managers with complete saving and cloud-based management software suite for their site(s). Since most facilities are large and have multiple HVAC systems, multiple SinuMEC units can be installed to match the facilities' loads.

TYPICAL OUTCOME

Non-food-related retail and commercial facilities typically **save up to 25% of energy consumed by HVAC systems** by using multiple SinuMEC units on multiple systems, integrated with PowerSines' Energy Hub.

The solution enables an attractive ROI, as well as significant reduction in CO₂ emissions.



Up to 25% direct saving in energy

Attractive ROI: 1 - 2 years

Reduction in maintenance & downtime costs; increase of motor and system lifetime

Seamless integration with existing on-site equipment

Lowering of CO₂ emissions

