

## Case study

# Marel — An EMS with international scalability



### Marel

Marel is a multi-national food processing company headquartered in Iceland. They manufacture and supply innovative food processing systems and equipment for poultry, fish, meat and further processing within the industry. Marel is one of the world's largest manufacturers of food processing equipment.

The eTactica EMS solution was used to optimize energy consumption at Marel's HQ in Iceland. The optimization was done from both a cost and environmental perspective. **HVAC cost was reduced by 33%, and lighting cost by 15%, for an overall Rol of 10months.** Based on these results, the solution is currently being installed at other Marel locations globally.



### The challenge

Marel's business initiatives are predicated on the effective use of energy and other resources which impact upon the environment and society in general.

As a part of this drive, the question to answer during the initial project was **how effectively HVAC and lighting were being utilised at Marel's HQ in Iceland.**

Depending on the results, the solution was to be rolled out to other Marel manufacturing locations.

### The solution

During the initial phase of the project, the eTactica EMS solution was installed in ten electrical cabinets on the three floors of Marel's Iceland offices. **The granularity of the measurements allowed the consumption from various equipment to be separated into components; HVAC, lighting, outlets, etc.**

The measurements from the ten cabinets were sent to **eTactica's cloud platform, where they are analysed for any trends and abnormalities.** Automated alerting for any such abnormalities were set up, allowing staff to react in time with preventative measures.

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After experience had been gained with the initial phase involving the offices, the solution was expanded to Marel's Icelandic factory, which is on the same site, as well as further factories globally.

## The results

The largest impact in the project was from reconfiguration of the HVAC system, following conclusions drawn from the measurements. This included the reduction of usage during off hours, including nights and weekends.

The resulting HVAC savings were **33%**. Broken down onto individual vents, **the savings ranged from 7% to 48%**. Impressive results were also obtained for lighting; a 15% reduction. Further savings were also achieved for other types of consumption---overall, these savings resulted in a **ROI of 10 months**.

In light of these results, **the solution is currently being expanded to further Marel locations**, each involving dozens of electrical cabinets to be monitored. Aside from per-site benefits such as described above, the multi-site solution will also allow Marel to compare the energy performance of each site on a global level.

**33%**

Cost decrease on HVAC

**15%**

Cost decrease on lighting

**10 mo**

Time to reach ROI



## About eTactica

eTactica is an Icelandic company that specialises in helping organisations measure and optimize their electrical energy consumption costs with the application of an intelligent energy monitoring solution.