

Retail Case Study

bauMax DIY



Main Achievements

- Significantly reduced energy consumption
- Implemented full control solution for additional savings
- Reduced lamp power while maintaining light quality

Background

bauMax AG is one of the leading and fastest growing DIY chains in the Central Eastern European region.

- Operates some 130 stores in Austria and Central Eastern Europe
- 10,000 Employees
- Four main divisions: construction, tools, home, garden
- Nearly 10,500,000 square feet of selling space

Several years ago, bauMax began implementing a major energy savings campaign and committed to reducing its global carbon footprint.

Original Situation

- Lighting constituted over 50% of bauMax's energy expenses
- bauMax required a solution that would give it 100% flexibility in terms of illumination levels across the floor areas of each store (control and dimming)

The Solution

bauMax considered several High Intensity Discharge (HID) energy saving alternatives, including fluorescent, during its decision-making process. The light quality, energy savings and control and dimming capabilities provided by Metrolight's system were the main catalysts for bauMAX choosing it for their stores.

Snapshot

40%

Energy Savings

Lamp Power

Reduced from 400W to 280W

Maintenance Costs

Reduced by 50%

Lumen Maintenance

Unchanged after 20,000 hours of operation

Annual CO₂ Saved

6,833 tons

Simple Payback Period

2.5 years

Total Annual Savings

€1,670,000

The Result

- Achieved 40% energy savings
- First phase of deployment included over 6,000 Metrolight systems in 39 stores
- Deployment expanded to 30,000 units
- 50% reduction in maintenance costs
- Over 15,891,200 kWh saved
- Light intensity and spectral color of lamp remained noticeably unchanged after 20,000 hours of operation
- Control and dimming capabilities deployed
- Central control of lighting system from bauMax's head office across all stores



Features	Before Installation	After Installation	Savings
Fixture Power Consumption (W)	485	294	191
Operating Hours/ Days	16	16	-
Annual Lighting-Related Energy Cost (€)	€ 4,140,000	€ 2,470,000	€ 1,670,000
Total Annual Savings (€)		€ 1,670,000	
Simple Payback		2.5 Years	

“The decision to implement the Metrolight energy saving solution has allowed us to achieve our objective of reducing our carbon footprint when it comes to lighting and significantly improves the environment for our customers. We were impressed with the professional approach taken in planning and executing this project.”

Thomas Schach, Head of bauMax's International Construction Department



Integration Partner:

NOVALUX

Novalux is a young, dynamic and growing company with designated expertise in intelligent, cost saving lighting systems in the commercial sector. Situated in Leipzig, Novalux operates in Germany and Europe, with current projects in the Czech Republic, Hungary and Croatia. For more information visit www.novalux.ag



Integration Partner

SMARTLUX

Smartlux is a leading partner in the planning, implementation and service of intelligent lighting systems for businesses, municipalities and for the fun and leisure industries. The driving ideology behind Smartlux is the control and management of area lighting while enhancing energy efficiency. Smartlux has a considerable footprint all across Europe. For more information visit www.smartlux.de



About Metrolight

Metrolight provides proven energy-efficient eHID and LED solutions for high-power lighting. Metrolight's ballasts and managed lighting solutions are used in retail, industrial, commercial and municipal installations to reduce energy consumption and carbon emission by 70%. Pioneering lighting energy solutions since 1996, Metrolight operates worldwide with over 750,000 systems deployed and over 8 billion hours in operation. For more information, please visit our website at www.metrolight.com