

Press Release

Smart Solutions

"Dumb systems are not smart choices!"

Arnsberg, April 2022 – Smartness is one of the topics of the future in the lighting market. The focus is on smart full-service solutions that have long since taken on a wide range of functions that go far beyond pure lighting tasks.

It's all a question of intelligence: in addition to light management, networking and cloud applications as basic requirements, advancing digitalisation is opening up many new opportunities and potential. "With our smart, turnkey full-service concepts, lighting is not only 'future-proof' – it brings the future into buildings and cities today," explains Joachim Geiger, CSO and CMO at TRILUX. Network-capable luminaires and the powerful LiveLink light management system are just the beginning. Open interfaces allow IoT components to be seamlessly integrated into the lighting network, for example CO₂ sensors, beacons for location-based services, monitors, speakers and cameras. "The possibilities are enormous, and thanks to perfectly configured plug-and-play solutions the effort required is low," says Geiger. "Anyone who leaves out the topics of smartness and future compatibility when planning a lighting system today is giving away enormous potential. Or put another way, smart systems are a very smart decision in the long run," summarises Joachim Geiger.

Two current TRILUX projects show the range of possibilities.

Kuehne+Nagel – a big step towards green logistics

On the way to climate neutrality by 2030, the logistics group Kühne+Nagel updated its old, uncontrolled lighting at the North German Obergeorgswerder and Altenwerder logistics hubs with smart, future-proof TRILUX solutions.

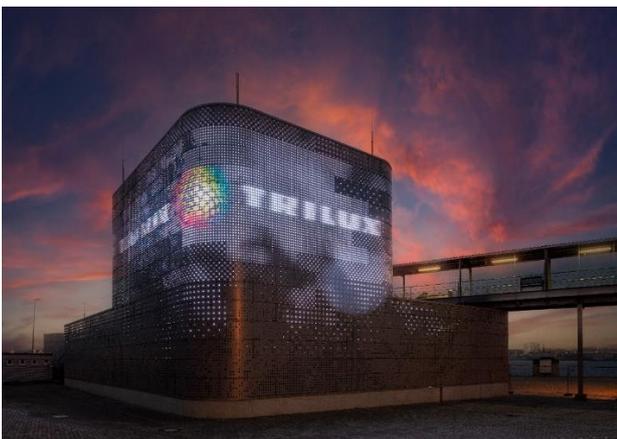
At the Obergeorgswerder site with 44,000 m² of handling space, 7.5 km of E-Line NEXT LED continuous line systems are used, and always with customised lighting technology for each logistics area. The luminaires were networked with the LiveLink Premium light management system, combined with sensors for daylight and presence detection and connected to the cloud. With the Light Monitoring digital service from TRILUX, each single light point in the network can be monitored, analysed and controlled in real time. This transparency lays the foundation for innovative applications such as predictive maintenance in which maintenance intervals are adapted to real needs, thus significantly reducing costs. The luminaires used are IoT-ready and can also be retrofitted with IoT components via standardised interfaces. In Obergeorgswerder, E-Line NEXT LED modules with integrated beacons are used for the heat-mapping location-based service. High-performance 3D sensors in the luminaires determine the paths of people and vehicles in the halls and display them as graphically processed frequency distributions on the hall floor plan. This allows danger spots and bottlenecks to be identified and processes to be optimised. The outdoor areas were also equipped with smart TRILUX solutions – including 165 SLR (Smart Lighting Ready) variants of Jovie LED post luminaires which were networked with the LiveLink Outdoor light management system and combined with sensor systems. The retrofit was carried out at both locations during ongoing operations and has more than paid its way – not only through distinct improvements in quality of light, but also thanks to significantly reduced energy costs of up to 30 percent at the Altenwerder site.



(Photos: TRILUX)

Port of Kiel – smart facade ahoy

In the future, three new landside power plants are to cover up to 60 percent of the electricity requirements of the ferry and cruise ships landing at the Port of Kiel. To give the project the attention it deserves and to strengthen the brand image of the Port of Kiel, the facade of one of the associated transformer buildings was equipped with a huge, flexibly playable media screen. For the purpose, a curtain wall with 12,000 LEDs was custom-developed in cooperation with Carl Stahl ARC GmbH – and installed across two fronts of the transformer building. The luminaires were networked via the LiveLink Outdoor light management system and connected to the cloud. This enables convenient and precise control of the LEDs at light point level. Colours and brightness can be varied dynamically thanks to Tunable White LEDs, making the installation ideal for displaying lettering, logos and animations. In fact the possibilities are endless: arriving ships, for example, are greeted by an animated Port of Kiel logo, visible from afar. In addition, the huge screen displays the current performance data of the landside power system. Other applications: animated, artistically qualitative posters for the Kieler Woche, employee advertising for the port, environmental or tourist information and a great deal more. The facade can even be used as a giant screen for simple video games, such as a round of 'Port Pong'. With the facade Kiel gains a new eye-catching marketing tool, and TRILUX yet another strong reference for smart special luminaire solutions in the field of event and entertainment lighting.



(Photos: TRILUX)

About TRILUX

TRILUX SIMPLIFY YOUR LIGHT represents the most simple and reliable path to customised, energy-efficient and future-capable lighting solutions. In the dynamic and increasingly complex lighting market, customers are provided with optimal advice, ideal orientation and perfect light. In order to ensure this claim TRILUX accesses a broad portfolio of technologies and services as well as efficient partners and companies within the TRILUX Group. The lighting specialist brings together individual components to create tailor-made complete solutions – always perfectly matched to customer requirements and the field of application. This allows complex and extensive projects to be simply and rapidly implemented from a single source. According to the principle of SIMPLIFY YOUR LIGHT, easy planning, installation and use is the focus of customer solutions in addition to quality and efficiency.

The TRILUX Group has six production locations in Europe and Asia and supports international customers with 30 subsidiaries and many sales partners. The Light division includes the brands of TRILUX SIMPLIFY YOUR LIGHT, Oktalite and Zalux. Associated companies include wtec, Crosscan, ICT and the online platform watt24. The Innovation Centre, as a division for research and development, bundles the innovative power under the roof of TRILUX. The TRILUX Akademie has locations in Germany, Austria, the Netherlands, Belgium, the United Kingdom, France, Switzerland and the United Arab Emirates, and communicates expertise concerning themes, trends and new developments in the lighting sector. The company employs approximately 5,000 employees worldwide, with headquarters at Arnsberg in Germany.

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