



**PHILIPS**

EUROGATE  
Container Terminals

Transportation

# Sustainable and high-quality lighting at EUROGATE Container Terminals

High quality LED floodlighting from Philips Lighting has been installed to illuminate an outside area of 2.9 million square meters at the EUROGATE Container Terminal in Bremerhaven, Germany resulting in over 50% savings in terms of energy and operations, improved visibility and safety for employees, and reduction in carbon emissions.

“Our strategy is built on three pillars: optimizing efficiency, minimizing environmental footprint, and maximizing safety. Upgrading to modern LED lighting was a logical move to help us achieve these objectives.”

Jens Greulich, Director Technology Coordination/Projects, EUROGATE

## Driven by sustainability

Sustainability at EUROGATE involves a commitment to economic efficiency, environmental protection and social responsibility based on stable economic development. With this in mind, the company is constantly examining the possibility of using more energy-efficient technologies. In regard to lighting, in 2016 four 35-metre-high lighting masts on the terminal quayside were fitted for six months with LED luminaires. The result

was a 50% reduction in energy consumption and emissions. Based on this success, it was decided to equip the entire Container Terminal Bremerhaven with LED luminaires by the end of 2017.

## A challenging set of requirements

Philips Lighting experts were invited to analyze the old lighting installation in the terminal and design a new lighting scheme that would meet all requirements. Next to meeting the sustainability objectives, another requirement was to minimize glare and improve spatial vision for the drivers of transportation vehicles, who sit 14 meters above the ground. At the same time, it was essential to maximize spacing between light points – and minimize their number.

## Customized lighting concept

The decision was taken to ask Philips Lighting to do the illumination project based on criteria such as high color reproduction, even and wide distribution of light, as well as reduction of energy footprint. The project involved disassembling about 2,000 floodlights spread over an area of 2.9 million square feet, and installing over 1,600 Philips ClearFlood LED floodlights. The work was performed on site by MWB Power GmbH.

## Expectations exceeded

The new lighting solution meets EUROGATE's sustainability requirements. It is providing significant savings in energy consumption and maintenance, and leading to considerable CO<sub>2</sub> emission reductions. It also improves visibility in the terminal and complies with all safety norms, such as the DIN EN 12464-2 regulation linked to lighting of exterior work places.

“Halving our energy consumption along with reducing our CO<sub>2</sub> emissions has exceeded our expectations; and our maintenance costs have also been cut back significantly. The new lighting concept brings benefits for our employees, too.”

Jens Greulich, Director Technology Coordination/Projects, EUROGATE



### Reduced environmental footprint

The significant reduction in energy consumption enables EUROGATE to decrease its environmental footprint. The new lighting leads to a reduction of 100 metric tons of CO<sub>2</sub> emissions per year.



### Increased safety

The minimized glare and significantly better color reproduction of the new LED installation ensures a more contrast-rich visibility. This results in an increased sense of safety for employees on the ground and drivers of transportation vehicles sitting up to 14 meters above ground.



### Reduced energy consumption and maintenance costs

With LED lighting now installed everywhere, the lower electricity consumption combined with low maintenance costs are expected to result in savings of at least 50% compared to the previous installation.

## About EUROGATE

EUROGATE is Europe's leading shipping line independent container terminal operator, handling about 14.6 million standard containers (TEU = twenty-foot Equivalent Unit) per year at 12 terminal locations. The company views sustainability as a crucial factor for its future viability, and acts as a pioneer in sustainable operations and testing new technologies to reduce environmental footprint.

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