

The Philips logo is displayed in a white rounded rectangle on a blue background. The word "PHILIPS" is written in a bold, blue, sans-serif font.

Indoor lighting

GreenManufacturing

Orkla, Kungshamn



Our stories

Casting a fresh look  
**at fish**



General lighting with LED, wireless lighting controls

GreenManufacturing

Manager: Martin Augustsson, Philips Lighting

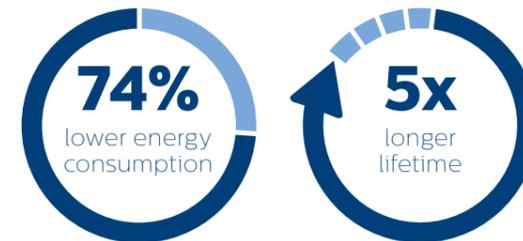
# Smarter energy saving lighting

## Fast, hassle-free installation

Persson was impressed with how simple and cost-effective the GreenManufacturing system was to install: "The luminaires were mostly suspended, with some surface mounted to the ceiling. Once the luminaires and wireless sensors were installed, it was quick and easy to set up and commission the system. Because the sensors are wireless we didn't need to run any additional wires, which saved us money."

## Intelligent lighting

The 6 wireless movement-detection sensors have been placed in strategic positions to ensure full movement detection coverage. The wireless sensors detect movement and 'talk' to the Pacific LED fixtures and give them a command. "When someone enters the building movement is detected in an area, and the lighting is switched on to 100% output" explains Persson. "And when they leave the area and no movement is detected for 5 minutes the lighting dims to 20% output level. After a further 5 minutes of no movement detection, the lighting switches off completely. We're saving energy every day because lighting is only being used when it's needed."



“It’s really economical not needing to run new wiring. The installation costs were minimal but **the savings have been maximised.**”

Jan Persson, Project Manager at Orkla Foods Sverige AB and AH Automation AB

## Minimal maintenance

According to Persson, LED lighting has made maintenance far simpler: "The old fluorescent lamps had a life span of 10,000 to 15,000 hours, so we had to replace them every three years. It was a difficult job if the luminaire was in a hard-to-access position.

"The new LED lighting has a life span of 50,000 hours without lighting controls, so we don't have to worry about maintenance intervals. Light sources won't need replacing for 15 to 20 years, and even the sensor batteries won't need replacing for around ten years."

## Low cost of ownership

The Pacific LED lighting has improved the quality of the light, and the movement detection sensors mean individual luminaires are only used when needed. "The new GreenManufacturing lighting system is excellent," says Persson. "We've reduced energy consumption by 74%, which is a huge saving."

Orkla Foods Sverige AB wanted a smart, energy-efficient and flexible lighting solution. They got exactly that when they chose GreenManufacturing with Pacific LED and wireless movement detection.

Orkla Foods Sverige AB produces a variety of fish products at their Kungshamn factory, including Abba fishballs, Kalles kaviar and Grebbestad anchovies.

Orkla invests regularly in new technology to help streamline its operations, and one of its ongoing goals is to save energy.

The company identified an opportunity to cut energy costs in the treatment plant, where the fish offal is separated. The existing fluorescent lamp system comprised 40 2x 58W T8 fixtures with occupancy control. Orkla wanted a much more energy-efficient lighting system that would deliver large energy savings.

"We knew about Pacific LED fixtures because our Norway factory uses them," says Jan Persson, Project Manager at Orkla Foods Sweden AB and AH Automation AB. "We wanted to make an informed decision before investing, so we visited the factory to see first-hand how they performed."

## Tough lighting for a tough environment

Orkla needed a lighting system that wasn't just energy efficient – it had to withstand the treatment plant conditions.

"It was very important that the new system could withstand the environment and had the appropriate IP protection class," continues Persson. "The plastics in the fixtures had to be very tough, and we couldn't afford for any brackets to rust.

"We tested a number of brands, but only the Pacific LED fixture met our requirements. It has an IP65 rating, and proved tough enough for the treatment plant environment."

## Philips GreenManufacturing: the complete system

Orkla decided to invest in the Philips GreenManufacturing system, which offers smart, energy-efficient LED lighting and wireless lighting controls. 30 Pacific LED fixtures with wireless occupancy control were installed in the 480m<sup>2</sup> treatment plant. The result was a crisp white light (4000K), which helps create a more comfortable working environment.

Set-up and commissioning was really simple, thanks to the control system's four pre-programmed lighting modes. And because the system uses LED lighting, fewer fixtures were needed to produce the right brightness. These energy savings significantly reduce the total cost of ownership – the system will pay for itself in less than 3 years.

