

interact



Warehouse

Case study

Helping to meet warehouse sustainability targets with connected lighting

ForestOne develops a smart, sustainable Warehouse of the Future with Interact in Berrinba, Australia



ForestOne teamed up with Signify to install a connected lighting solution that maximizes energy savings with a lighting-on-demand infrastructure and improves employee safety with the right levels of light.

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The energy savings we achieved with Interact exceeded our expectations. We lowered our electricity consumption by 70%, improving our bottom line. Additionally, we've created a more environmentally friendly and cost-efficient working environment for our employees, setting an example for sustainable operations within our industry.”

Jon Battelley,
Group Operations at ForestOne

Customer challenge

ForestOne is Australia's largest independent distributor of plywood, timber, and laminate materials. The company's sustainability strategy manifests itself through both their product offering—providing best-in-class, ethically sourced materials—and how they operate their facilities. Their flagship warehouse in Berrinba, Australia, is a 10,000 m² state-of-the-art facility designed to be the Warehouse of the Future, showcasing ForestOne's commitment to innovation and sustainability.

As a company with the goal of minimizing the impact of buildings on the environment, ForestOne embarked on a journey to transform their new Berrinba warehouse into a smart and sustainable operation. Their main challenge was reducing their high energy consumption, but they also aimed to reduce operational costs and enhance the working environment for their employees. They needed a technologically advanced smart lighting solution that was scalable, flexible, and easy to install.



The solution

Signify developed an on-demand lighting infrastructure for ForestOne, with sensors integrated into the lighting fixtures. The Interact system intelligently adjusts lighting levels and behaviors based on occupancy and natural light levels. The solution provides substantial energy savings of up to 70%, as compared to a non-connected solution, minimizing the company's carbon footprint and supporting its commitment to sustainability.

The Interact smart lighting solution developed for ForestOne is wireless, which allowed for fast commissioning and a smooth installation, while dramatically reducing cabling costs and environmental impact. 280 luminaires were programmed in just one working day.

With the ability to reconfigure the space in the future based on evolving business needs, and to scale up to other facilities across the business, ForestOne now has the flexible and scalable lighting solution they were seeking. Additionally, the lighting system improves employee safety and boosts the building's Green Star rating.

Making it happen

With Interact, ForestOne enjoys a system that ensures light is on when and where it's needed, considering all the legal requirements and the safety of its employees. The system allows ForestOne to get additional energy savings through daylight harvesting and occupancy-based lighting.

At the same time, the solution ensures ForestOne employees have access to high-quality, reliable lighting, which is essential for continuous operations and safety in industrial facilities.

Benefits



Maximum savings, minimal impact

Advanced controls enable ForestOne to generate a remarkable reduction in energy consumption—up to 70% as compared to a non-connected solution—minimizing the buildings' overall environmental impact and reducing overhead costs.



A scalable platform

New software modules and new facilities can be onboarded on the same Interact platform, making this the innovative, future-proof, scalable, and flexible solution ForestOne was looking for.



Reduce operational and installation costs

Implementation of this wireless system caused minimal disruption to warehouse operations.



Ensure compliance

The solution helps ForestOne make progress toward its sustainability goals, ensures an improved employee experience, and complies with Australian Green Star, outdoor/indoor lighting, and safety standards.

Project details

- 70% energy savings compared to non-connected solutions across the 10,000 m² facility
- A super easy commissioning process where 280 luminaires were programmed in one day
 - Using a wireless system has saved 2–3 km of cable and A\$6000
- The solution provides the Green Star rating points for lighting required by ForestOne to meet the full quota

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