Signify



Light as a Service (LaaS) Case study:
Air Liquide

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World leader in gases, technologies and services for industry and health, Air Liquide operates in 78 countries with approximately 64,500 employees serving more than 3.8 million customers and patients.

As a pioneer in its industry, the French multinational has a strong commitment to building a sustainable future — and energy transition is at the heart of its strategy.

A common objective

Air Liquide is aiming to reduce its CO_2 emissions by 33% by 2035 versus 2020, and targeting full carbon neutrality by 2050. Therefore, it has identified many levers to reduce the CO_2 footprint from its industrial activities. Furthermore, Air Liquide believes that each action, however small, should be considered for implementation. That's why an upgrade of the lighting network from traditional lighting to LED lighting was identified as an efficient and cost-effective project. Teaming up with world leader in lighting, Signify, the ALight initiative was born.

The ALight project has been designed specifically to help reduce Air Liquide's building carbon footprint while achieving some economical savings, as well as improving workspace ergonomics with higher quality lighting. The project positively impacts employees in all work environments: workshops, offices, production plants, warehouses and managers, as well as operators and frontline staff.

ALight is a scalable and replicable initiative, unifying people behind a common environmental action; no matter the size of the plant, no matter the type of site, ALight's green benefits are applicable. To deploy the project on a worldwide scale, Air Liquide chose to leverage both Signify's lighting expertise and its experience in delivering global, large-scale and turnkey projects.



"The abatement of CO₂ emissions, leading to a low-carbon societγ, is one of our main environmental objectives."

Ashutosh Misra, Air Liquide, VP Sustainable Development



"With LED lighting installed on our sites instead of conventional lighting, we expect lighting-related energγ consumption to decrease by up to 65% and as much of a decrease in associated carbon dioxide emissions."

Corinne Hodan, Procurement Performance Director, Air Liquide

Environmental impact

LED lights have a rated lifetime of 30,000 to 50,000 hours, far greater than traditional high-intensity discharge and fluorescent lights. This means that fewer bulbs will need to be replaced, thereby reducing maintenance costs and efforts as well as the need for disposal often into landfills.

So far, Air Liquide has launched the ALight project across 31 sites in Europe, Asia and the Middle East, leading to the installation of more than 8,600 new LED fixtures, reducing energy consumption by an estimated 2,840 Megawatthours per year and CO_2 emissions by around 770 tons per year*. This compares to the yearly emissions of around 270 cars, or 300 round-trip flights from Paris to New York – and Air Liquide is showing no signs of stopping there!

*IEA 2019

Employee well-being

LEDs emit light in a specific direction, reducing the need for light-trapping reflectors and diffusers, and contribute significantly towards minimizing glare and discomfort, which can cause adverse health effects such as increased headaches, anxiety, and fatigue. With LEDs the light is more directional and less light scatters into a site's surroundings, having a more positive impact on the environment around the site. This makes LEDs more efficient for many uses, such as recessed downlighting and task lighting.

"The staff are delighted with this improvement, and the improved brightness allows them to work more safely and accurately."

Salvatore Bellomo, Head of Maintenance, Cryolor (part of the Air Liquide Group)



Light as a Service: a tailor-made solution

A smart approach to your lighting upgrade

Air Liquide's lighting upgrade is delivered through either a CAPEX or Light as a Service (LaaS) contract model. The latter is the most cost-effective and hassle-free way to greatly improve your lighting infrastructure, while preserving your financing capacity to more business-oriented projects. With LaaS, Air Liquide only pays a fixed monthly amount, most of the time offset by the savings achieved. This price covers an agreed amount of light, guaranteed energy savings, as well as all design, installation, and operational costs. No upfront investment is required.

Signify will also carry out annual health checks and preventative maintenance on the lighting and recommend any new technologies or innovations that are developed in the future. With Light as a Service, Air Liquide can rely on years of lighting expertise and a detailed plan that ensures the highest quality of light with the energy savings to match.

The ALight project: a productive partnership The success of ALight will be measured by more than just the hard facts and KPIs; it's the people who are affected who determine whether it's been a win. ALight is a not only a scalable project, it's one that's meaningful, driving for a better future and within everyone's reach.

Signify's innovative LaaS model and vast experience are a well-appreciated complement to Air Liquide's drive to take effective action to contribute to a more sustainable world.



"When a zero-expenditure phase (lasting almost 2 years) was introduced on the site, a LaaS type of contract was the ideal solution that allowed us to upgrade our lighting."

Christian-Gabriel Haag, Operating Manager, ALFI Dunkerque (part of the Air Liquide Group)

"Both the filling and logistics teams are very satisfied with the results and comfort created by the new lighting, with even more evident benefits in the winter season when sunlight becomes more scarce. The deployment of the project respected the schedule and Signify was very professional"

Filippo Luise, Verona Plant Manager and QP, Air Liquide Sanitã Service





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