



Smarter energy: accelerating business use of indoor connected LED lighting

Purpose

Buildings consume up to a third of global energy demand, and account for around a quarter of greenhouse gas emissions globally.

Connected LED lighting helps to address both, also offering a wealth of business benefits including cost savings and delivery on emissions goals, while potentially increasing employee productivity.

More and more companies are saving 50-70% of their energy use through connected LED lighting – and up to 80-90% when linked to sensors, smart controls, and the Internet of Things (IoT) technologies.

But the rate of progress is not fast enough to deliver the carbon cuts needed to keep global warming under 2 degrees Celsius. The current rate of building refurbishment needs to be doubled.

To accelerate the pace of change, The Climate Group is creating a network of leading multinational companies, together with solution providers, to speed up knowledge sharing and change.

How we work

Over the past 8 years, The Climate Group's 'LED Scale-UP' program – delivered in partnership with Signify (formerly Philips Lighting) – successfully put LEDs on the agenda of city authorities and called for all public lighting to be LED (or as efficient) by 2025.

In continued partnership with Signify, we are now seeking to drive a more urgent goal for indoor lighting – a complete roll out of LED lighting across the private sector by 2020.

LEDs are, after all an easy and affordable energy efficiency solution that companies can implement straight away – so why wait?

“Connected indoor LED lighting not only achieves unprecedented energy savings, it can facilitate many use cases enabled by IOT. Connected Lighting can do so much more enabling users to understand their space utilization, improve performance, send high bandwidth data, help employees find spaces to work and much more.”

– Derek Wright, Global Head of Office & Services, Signify

A GLOBAL SWITCH TO LED LIGHTING BY BUSINESS COULD AVOID 403 MILLION TONS OF CO₂ AND SAVE US\$94 BILLION



"Landsec have ambitious, science-based carbon reduction commitments which are well supported by The Climate Group's EP100 and RE100 campaigns. Investing in technologies such as LED lighting, helps us achieve our goals whilst reducing operational costs for our customers and improving the resilience of our buildings." -

Caroline Hill, Head of Sustainability and Public Affairs, Landsec

Our 144,000 employees come to work every day with a passion for green growth. We have been reducing our energy consumption and were awarded for this, saved costs, while showcasing our own technologies." - **Xavier Houot, SVP Global Safety, Environment and Real Estate, Schneider Electric**

"In the last year, we've targeted low hanging fruit, like ensuring unused lighting and equipment are switched off outside of working hours and installing LED lighting in our new stores. Going forward, we'll be investing heavily in innovative, energy-saving technologies, to build stores using 40% less energy than those constructed today." - **Emilio Guzman, Sustainability Business Expert, H&M Group**

They create modern, human-centric, adaptive lighting environments, that enable staff to adjust their work lighting for their needs and well-being. Connecting them to smart sensors and controls, and data gathering systems, can further optimize energy use and workspace usage across offices, retail, factories, logistics, hospitality, and healthcare.

To build our network of key stakeholders The Climate Group is collaborating with:

- Multinational companies planning to make a global switch to LEDs across their buildings, where owned or leased;
- Leading companies that have already made the switch, who are willing to share their experiences, best practice, and the business case;
- Property managers wishing to play an enabling role in helping major businesses to transition to LEDs;
- Solution providers offering smart energy and connectivity technology, finance, installation services, and consultancy;
- Private, academic, and government bodies able to demonstrate the benefits of building optimization and data gathering;
- Policymakers looking to drive progress on energy efficiency – including city governments successfully rolling out LED lighting.

What we will do

- Encourage knowledge sharing and the provision of practical and technical guidance to businesses making the switch;
- Help companies overcome challenges and unlock new funding for large scale projects;
- Ensure business and government action on LED lighting goes hand in hand to deliver on the 2020 goal;
- Highlight company achievements and progress on an international scale.

Find out more

To find more and get involved as a participating business, solution provider, or sponsor, contact **Toby Morgan, LED Program Manager, The Climate Group** TMorgan@TheClimateGroup.org

To find out more about The Climate Group's global energy efficiency initiative bringing together the world's most energy smart companies, visit TheClimateGroup.org/EP100 and follow #EP100 on Twitter.