Bouygues Bâtiment Ile-de-France - Construction Privée reduces lighting expenses by 58 percent thanks to the Redwood® building intelligence platform

Embracing quality, efficiency and sustainability

“By combining the Redwood® extra-low voltage system with customized LEDs developed in a partnership with Bouygues Bâtiment Ile-de-France - Construction Privée, Debbas France and CommScope, we have managed to reduce our energy consumption for lighting by 58% while obtaining reliable information on the use of space. Moreover, our customers can observe all this directly in real time at our company’s headquarters.”

Patrick Verrier, Ex. Electricity Department Manager Technical Department Bouygues Bâtiment Ile-De-France Construction Privée

Bouygues Bâtiment Ile-de-France – Construction Privée specializes in developing a wide range of complex, state-of-the-art private commercial projects. True to their motto, the teams seek to remain “one step ahead” of the competition thanks to superior technical expertise and a strong commitment to sustainable construction methods.

The Bouygues Construction Group, which owns Construction Privée, is a global player in construction and services. Present in 80 countries, the Group’s 53,500 employees design, produce and operate structures made to improve their users’ everyday living environments with one objective – Building a Better Life.
Construction Privée’s employees work on the largest projects in the Ile-de-France region, achieving sales volumes of 6-250 million euros. Market expertise includes:

- Business property
- Shopping centres
- Hotel and catering industry
- Private healthcare facilities
- Private educational institutions
- Cultural and religious centres
- Sport facilities

Installing an interactive showroom at Construction Privée’s headquarters
CommScope has enjoyed a longstanding partnership with Bouygues Bâtiment Ile-de-France - Construction Privée. When the company found out that its network infrastructure partner had acquired Redwood Systems®, it immediately began discussions with CommScope to work on the idea of exhibiting its Redwood® smart sensor technology at its operational headquarters of Bouygues Bâtiment Ile-de-France - Construction Privée located in Les Ulis, in the Essonne department.

“We quickly agreed on the idea of an interactive showroom in the lobby of our headquarters that would enable visitors and employees to observe in real time how the building consumes various types of electrical energy,” explained Camille Tafani, Ex. Electrical Engineer at the Technical Department of Bouygues Bâtiment Ile-de-France – Construction Privée.

A fast, smooth implementation
The facility installation was completed on schedule and within budget by BTB Elec, a CommScope PartnerPRO® Network provider. From design to implementation to testing, the technicians at BTB Elec ensured excellent results. They worked primarily at night to avoid disrupting normal daily company activities. Throughout the installation period, CommScope remained attentive to the needs of Bouygues Bâtiment Ile-de-France - Construction Privée, providing professional advice and assistance when necessary.

The 200 square meters of open space were equipped with 33 Arlus Plato 3D lamps specially adapted by Debbas France to meet Bouygues Bâtiment Ile-de-France – Construction Privée’s needs. Each lamp contains a Redwood multifunction sensor that records data relative to movement, luminosity and temperature. These lamps were connected through a simple RJ45 connector to a Redwood Engine and Director. This equipment provides users with remote management of sensors and lamps using a PC, tablet or smartphone.

A partnership focused on a profitable future
After having observed consistent system performance, the company now has plans to expand the Redwood® system to control shutters and air conditioning, and manage office space. Bouygues Bâtiment Ile-de-France – Construction Privée is also particularly interested in local markets with high growth potential at a time when the company is able to promise its customers impressive energy savings.

Patrick Verrier, Ex. Electricity Department Manager at Bouygues Bâtiment Ile-De-France Construction Privée, explained, “Thanks to CommScope, our building can now be managed in a precise, intelligent manner. We have defined several operating periods for daytime, evening, weekend and holiday lighting. This is pretty amazing technology – the public should visit our showroom in Les Ulis and see Redwood in action.”

“Lighting accounts for approximately 32% of an average building’s energy costs. Since we equipped our new headquarters with the Redwood® solution in 2014, our lighting expenses have accounted for less than 14% of our overall energy costs.”

– Patrick Verrier, Ex. Electricity Department Manager Technical Department Bouygues Bâtiment Ile-De-France Construction Privée

“Lighting-related energy consumption does not exceed 600 watts. That is less than 3 watts per square meter!”

– Camille Tafani, Ex. Electrical Engineer Technical Department Bouygues Bâtiment Ile-de-France Construction Privée

CommScope (NASDAQ: COMM) helps companies around the world to design, produce and manage their wired and wireless networks. Our infrastructure solutions help our customers to increase their bandwidth, to make the most of their existing capacity, to improve the performances and availability of their networks, to improve their energy management and to simplify their migration technologies. Our solutions are implemented in the largest buildings, locations and outside spaces such as data centres and buildings of all sizes, shapes and complexities. Our wireless cellular solutions can be found in airports, trains and tunnels. All the vital functions in the world operate with CommScope solutions.