



## WE LIGHT UP THE ROAD TO EXPO 2015

Agrate Brianza, 21<sup>st</sup> of May 2015 - "Feeding the Planet, Energy for Life", as well known, is the theme of Expo 2015, the Universal Exposition that Italy, and in particular the city of Milan, will home from May 1 to October 31 2015.

The Site of Expo 2015, which covers about 1 million of square meters, is located just north-west of Milan, in the middle of a rich and integrated infrastructure system, further strengthened through the enhancing of Rho-Monza highway. This way of communication, along with the Milanese trait of the A4 Turin-Venice highway, between the East barrier of Milan and exit to the city center of Milan, one of the busiest nodes in the region of Lombardy, give the access to exhibition site, thus representing an important and strategic crossroads as part of Expo 2015.

Fael LUCE, in collaboration with *Autostrade per l'Italia*, the European leader among concessionaire for the construction and management of toll highways, has provided for these two important traits, 835 pieces of PROXIMO streetlights with LED light source, in order to ensure an effective transport system and an essential service to the mobility that, in this region, will play a crucial role throughout the entire 2015.

### THE SOLUTION

Visual comfort, safety and energy savings are the main objectives of this lighting project, characterized by intense traffic flow, several junctions and connections. Therefore the safety requires an adequate level of illumination to ensure full visibility along the entire route.

In this framework, Fael LUCE provided PROXIMO with 42 and 49 LEDs, with a power consumption between 112 and 157W.

In particular, along the Milanese trait of the highway A4 Turin-Venice, in conjunction with the works for the construction of the fourth dynamic lane, *Autostrade per l'Italia* has decided to illuminate the entire trait, 11 km long, with a lighting system consisting of two opposite rows of PROXIMO street lighting. The installation includes poles 10 meters height above the ground, completed with extension arm length of 2 mt. The pole distance is 3.7 times the height of installation, in accordance with the law of the Lombardy Region in terms of energy saving and against lighting pollution.

The streetlights are equipped with optic especially designed and patented in-house by FAEL Spa, which, in order to fully satisfy the CIE recommendations and the international street illumination engineering norms, and in accordance also with the recommendations against light pollution, developed a mixed refraction/reflection system.

In the perspective of a containment of the power consumption and intelligent management of the lighting systems, Fael LUCE streetlights have been provided with a wireless communication system, which transforms the lighting system in a real network, allowing the transmission and processing of millions of data and translated into real actions.

### **BEYOND THE LIGHT**

The solution proposed by Fael LUCE therefore exceeds the border of traditional lighting, providing, thanks to lighting-technology combination, an integrated lighting system that provides the possibility to manage remotely the system, allowing adjustment of the light flux by time slots or in different situations (for example in cases of emergency, during the night or in road maintenance times of greater or lesser traffic), the constant emission of the luminous flux during the lifetime streetlights and the real-time detection of the power and possible faults for every single device.

The lighting system realized by Fael LUCE allows a saving of approximately 40% of electricity consumption, compared to traditional solutions with discharge lamps, ensuring an average life of the device four times higher, smart and less onerous maintenance, placing the project as part of the *smart city* and thus opening the door to new smart lighting scenarios.

### **WE DO IT BETTER – WE DO IT TOGETHER**

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*Fael Luce is a leading company in the supplying of innovative and sustainable lighting systems. The huge range of products includes lighting systems for large areas and sport facilities, urban lighting, industrial and commercial structures. Established in 1965, headquartered in Agrate Brianza (Italy), FAEL Luce experienced a vast development, that allowed her to be present in several markets worldwide, where exports the 70% of her production.*

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