



LED LIGHTING SYSTEMS



CREATING THE FUTURE THROUGH ADVANCED SOLUTIONS INNOVATION

+QUALITY
+RELIABILITY
+EXPERIENCE
+KNOW-HOW
**ENVIRONMENTAL
SUSTAINABILITY**
+ENERGY
EFFICIENCY

LED lighting solutions

The quality of the spaces and the well-being of the people. Cities, infrastructure, public and private buildings, shopping centers, industries. We bring a new light, intelligent and energy-efficient, managed and optimized on customer's needs. This is the commitment of Greenled Industry, your partner to get the excellence through lighting innovation.



EXCELLENCE TO HELP OUR CUSTOMERS TO EXPLOIT THE LIGHTING INNOVATION

A revolution is underway to change the lives of people and businesses. Better living of urban spaces and improved of well-being and environmental sustainability, increased in competitiveness of businesses, in order to achieve unparalleled and superior results. This is possible thanks to technological innovations that are opening new scenarios with the view to creating a unique interconnected ecosystem: from Smart Buildings, to Smart Industries and Smart Cities.

A new industrial renaissance that, thanks to the enabling technologies, put people at the heart, by satisfying their needs and increasing the quality of work and urban living.

The light plays a key role in the creation of these new paradigms, as the element that can support the growth and the sustainable development, by turning cities, buildings, companies, in intelligent environments, more functional to people's needs.

In this perspective, Greenled Industry participates in the global revolution of electric digitization, by investing in research & development, in high-quality and sustainable materials, combining ethic and technologies while preserving the natural environment.

Promoting excellence through lighting innovation

Describes our mission: helping to improve the quality of the spaces and promoting value creation through the lighting. Switch on a new light becomes our daily commitment to excellence, in order to foster the success of customers through the introduction of innovation and energy saving in its reality and to provide solutions that increase competitiveness and well-being.

“Just as energy is the basis of life itself, and ideas the source of innovation, so is innovation the vital spark of all human change, improvement and progress”

Theodore Levitt
American Economist, Professor at Harvard Business Review

#LIGHT4EXCELLENCE

FROM START-UP TO ITALIAN EXCELLENCE

Established in 2012, Greenled Industry is the first start-up developed by Italeaf, the first Italian company builder listed on NASDAQ OMX First North. In 2016 the company was acquired by TerniEnergia, part of Italeaf Group and smart energy company listed on the STAR segment of the Italian Stock Exchange. TerniEnergia is committed to bring worldwide integrated, intelligent and sustainable energy solutions.

Since its birth, Greenled Industry has experienced a rapid development and a strong focus on innovation that characterized the entire corporate reality.

Today the company is an Italian excellence,

specialized in the design and manufacturing of LED lighting systems, suitable for industrial applications also in extreme environmental conditions, street and large area lighting, commercial and indoor spaces lighting.

The manufacturing of the products is entirely managed in Italy, in the Novara manufacturing plant, ensuring high quality and reliable products.

The purpose of our offer is to promote a rational and intelligent use of the light thanks to the adoption of innovative LED lighting systems, able to perfectly answer to energy saving and visual comfort needs with specific and customized solutions.

CREATING THE FUTURE: THE INNOVATIVE STRENGTH OF THE LIGHT

Progress requires innovation, imagination, new methodologies, creative adoption and new ideas that focus on the human being and promote communication and collaboration among people. Today, innovation is indispensable to the interconnection between technology, people and the environment: progress can then be achieved through collective intelligence, distributed, coordinated and active.

In order to do this, we need participation, specialized skills and integrated technologies. That is why Greenled Industry cooperates

with customers and partners with the aim to bring digital innovation through efficient and intelligent lighting that can design a new, more sustainable and dynamic future. Lighting is everywhere and can be the multi-functional connection network, capable of interacting and engaging with man and technology, by creating integrated and intelligent platforms that make innovation accessible for people.

A new light is driving the progress, in order to realize the most revolutionary digital transformation of the modern era.

OUR TECHNOLOGY FOR A PERFECT LIGHT IN EVERY SPACE

Customized products

Our solutions meet the customer needs in an efficient and cost-effective way. You can customize the lighting solution thanks to the wide range of configurations, optics and luminous fluxes.

Quality and Reliability

High-quality components, made in Italy products and innovative LED lighting systems that ensure the best result.

Superior performance and market-leading lifetime

The lighting fixtures are characterized by incredible lighting performance and durability. Thanks to the technical plus of our products, we can ensure longer lifetime compared to the market standards, with guaranteed performance until 10 years.

In-house technologies

Industrial lighting fixtures for harsh environments, are characterized by an innovative design realized through a process that use a high thermally conductive epoxy resin where the components are "immersed". The process maximizes the performance and the lifetime, also in extreme environmental conditions (temperature until +75°C wet and dusty locations). The power supply has been exclusively designed to supply high-power LED, using high reliability components with a wide range of operating temperature. The power supply is characterized by a peculiar circuit diagram that avoids using electrolytic capacitors.

Intelligent lighting

The light plays a key role in order to create more sustainable environments that meet people's need and contributes to increase the quality of the spaces with value-added functions. Our products can be equipped with lighting management systems that allow the control of individual light or of the groups of luminaires. The lighting system also allows the integration with IoT (Internet of Things) and IIoT (Industrial Internet of Things) devices, in order to create the new paradigms of Smart City, Smart Building and Smart Industry.

Certifications and Associations

In order to offer better products and services to our customers, we strive to enhance the reliability and credibility of our company through the high-quality standard satisfaction. The certifications obtained demonstrate our consistency and our commitment to excellence.



Greenled Industry is certified ISO9001:2015, the international standard for Quality Management System. Quality, innovation, customer focus, are part of our value system and outline our corporate identity, by leading and orienting the strategic choices.



The products identified with this voluntary quality mark, complies with applicable EN safety standard (electrical and photobiological safety regulations) and performance testing requirement. For admission to the mark, Greenled Industry are subjected to tests carried out by a third party, who has the right to use its own laboratories and inspectors for the regular visits to the company.



The innovative features of Volta and Matteucci luminaires are the subject of the patent application for utility model nr. 0000269980 and nr. 0000271427 titled "Intelligent LED lamp designed for energy saving and controlled by remote control center"



The CE marking, placed on all of our products, means that they are comply with the European Community standards



Ecolight is a national no-profit consortium that collects over 1.500 companies and is responsible for the management of electronic waste and batteries. The consortium helps to preserve the environment and promotes the sustainable development.



LIGHT FOR SAFETY AND WELL-BEING

The light regulates physiological processes that influence concentration, well-being and circadian cycles.

Proper and stable artificial illumination that creates the best visual conditions and allows good color visibility, without glare or flicker, is important in order to fight fatigue and to ensure health and safety. Increasing the safety conditions is especially important in industrial environments, where it is necessary to reduce the risk of accidents and errors related to operating and maintenance activities.

LIGHT AS A KEY SUCCESS FACTOR

A well designed and energy-efficient lighting system can really help to improve performance and reduce energy costs.

High visual comfort stimulates creativity and contributes to increase work performance. Proper light means also that the lighting helps to create more attractive retail areas, the goods are enhanced thanks to a better perception of the colors and the shopping experience becomes more pleasant.

The LED lighting system also reduces energy costs over 60% and ensures the reduction of maintenance costs. You can stay more competitive and preserve useful resources for the businesses and for the cities, while protecting natural environment.

WELL-BEING SAFETY ENVIRONMENTAL SUSTAINABILITY ENERGY SAVING

LIGHT HELPS TO PROTECT THE NATURAL ENVIRONMENT

Energy-efficient lighting means decrease the environmental impact by reducing energy consumption and CO2 emissions.

It is also important to choose eco-friendly products without harmful substances, that are manufactured with disposable and recyclable materials. Protect the environment is a social responsibility and a commitment, both for manufactures and customers, with the common goal of preserving the nature.

INTELLIGENT LIGHT ENABLES THE SPACES OF THE FUTURE

The digitization of light will open a new era that bring luminaires beyond the simple lighting.

Intelligent LED lighting remote control systems allow interconnection with other devices, turning luminaires into intelligent nodes and vehicles of useful information. The purpose is provide value-added services efficiently, in order to deliver functions that are useful for citizen and people. These new intelligent functions allow us to imagine the future and make it possible today, creating more efficient, more sustainable, more livable and safer public spaces and businesses.

WHY GREENLED INDUSTRY

REALIZE YOUR SPACE'S FULL POTENTIAL THROUGH THE LIGHT

→ We offer innovative solutions

that reduce the TCO (Total Cost of Ownership) of the lighting system thanks to the superior performance that minimize the energy and maintenance costs.

→ We are the new benchmark in the industrial lighting market.

The reliability of the products, the superior performance guaranteed over time, allow to maximize the lighting result and minimize the risks for the clients and also for ESCO projects.

→ We work together with qualified partners.

We select the best technical and commercial partners in order to ensure a superior result for the client.

→ We are an Italian company that plays an innovative role in smart city and smart industry revolution.

Greenled Industry offers complete solutions that help to maximize the result, accelerating the transition to efficient and innovative LED lighting solutions.

From the supply of high-performance luminaires and the design of the LED lighting system, to the implementation of advanced lighting remote control systems and smart services that are possible thanks to our selected partners. Everything is aimed at one goal: help our customers to realize their spaces' full potential through the light.

COMPLETE SOLUTIONS FOR EACH PROJECT

We illuminate the streets, historical centres, parks, airports, ports, railway stations and subways, increasing the quality of life and the liveability of the spaces. Our luminaires are installed in the shopping centers, in the schools and in the offices, making the customers and users's experience more enjoyable.

The Greenled Industry's products light up the manufacturing facilities in an excellent way. With our lighting solutions, the warehouses and the working areas, also in extreme environmental conditions, become safer and more productive while reducing the energy consumption and preserving the nature.

Our lighting systems guaranteed superior performance and long life time in every space.



Industry



Cities, streets, public spaces



Offices



Commercial and Retail



Parking lots



Public and Transit areas



Infrastructure and Transport



Logistics and Warehouses



Sport facilities



INDUSTRIAL LIGHTING

Greenled Industry is one of the Italian pioneers in developing and implementing next-generation LED lighting solutions for industrial applications, also in extreme environmental conditions and energy-intensive industries. Today the company is the best protagonist of made in Italy, continuing to proceed along the frontier of innovation.

Thanks to the innovative constructive characteristic that provides the absence of glass and the use of resin with high thermal dissipation, combined with the high-performance proprietary driver developed by R&D department, we can offer luminaires that guaranteed superior performance over time.

The LED lighting systems are suitable to satisfy the stringent requirements of the manufacturing areas, foundries, cement plants, glass works, warehouses and logistics sites, where it is important to ensure the proper lighting during the time while reducing the costs relating to energy and maintenance. The result is a brilliant light that enhances visibility with positive effects on productivity and on the health and well-being of the workers.

Furthermore, through the intelligent lighting control system it is possible to integrate IIoT (Industrial Internet of Things) technologies with

luminaires, make them interact in order to create new intelligent factories that use integrated and interconnected networks to achieve greater efficiency in industrial processes and making the business more competitive.

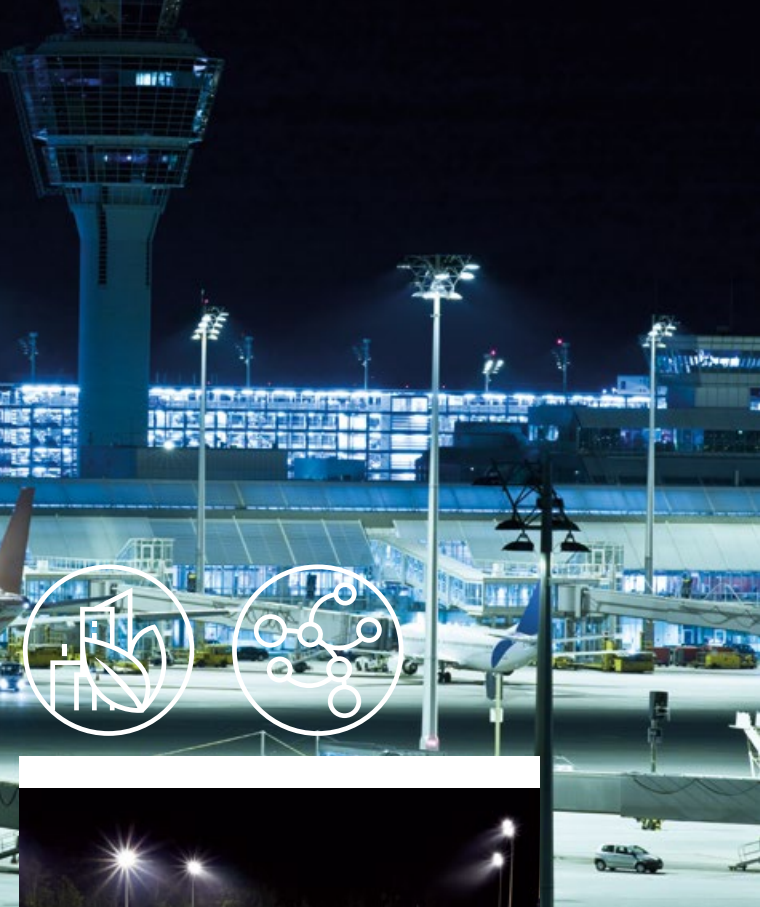
- **Over 60% of energy and maintenance costs saving**
- **Reducing of CO2 emissions that positively influences corporate goals of environmental sustainability**
- **Intelligent lighting remote control system allows to create the Smart Industry**
- **Enhancing the safety and visual comfort. Great lighting levels, according the different needs and work tasks. Lighting is compliance with standards.**



LARGE AREA LIGHTING

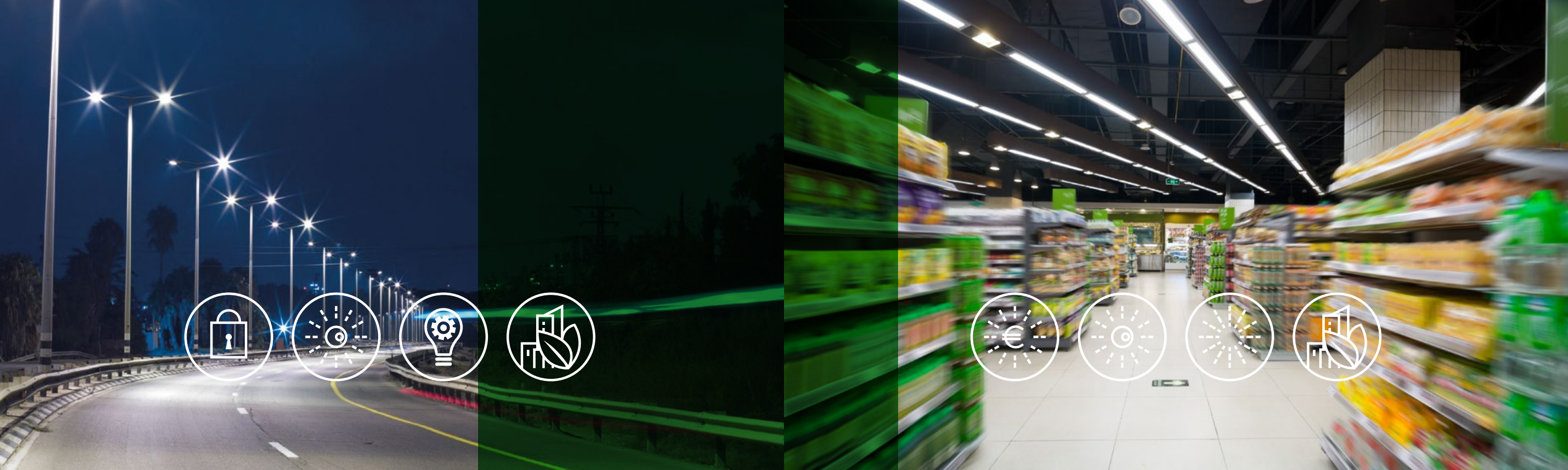
Greenled Industry's lighting systems are suitable to illuminate large and wide areas both indoor and outdoor such as airports, railway stations, port areas, sports facilities, motorways, roundabouts, industrial sites, also in case of the installation of compose groups of floodlights on towers.

The lighting of large areas requires high standard of safety and visibility. The double request of ensuring the safety of operations that take place in these contexts, while reducing the operational costs related to the lighting, requires the adoption of a well-designed, energy-efficiency and long lasting LED lighting systems.



Thanks to our luminaires you can reduce energy and maintenance costs and ensure the proper lighting of the spaces, with high benefits for the citizen and for the natural environment. The excellent lighting performance and the wide range of configurations available, allow to illuminate multiple areas in a flexible and efficient way.

- **Reducing the costs relating to the lighting system. Fast payback time**
- **Improving visual comfort and safety. Better colour perception in order to facilitate user's orientation**
- **Reducing lighting pollution and CO2 emissions**
- **Implementing lighting remote control system allows to create intelligent ad connected spaces**



STREET LIGHTING

Streets, squares, parking lots, roads, roundabouts, historical centres and pedestrian areas, Greenled Industry's products illuminate every space ensuring high and long-lasting performance and helping in energy cost saving.

The lighting fixtures can be equipped with the intelligent remote control system, in order to optimize the lighting and to enable advanced functions such as remote lighting control, performance analysis of the LED lighting system. The purpose is to always ensure the proper lighting and make the light more functional to the needs. Value-added services can be implemented in every lighting fixture through the use of technologies that are able to communicate and share the intelligence with the environment and people, delivering services to the citizen such as access control, traffic information, parking information, electric mobility services, etc.

These functions are the key to create the Modern City.

- **Ensuring the safety of the vehicular and pedestrian traffic**
- **Increasing the visual comfort. Improving citizen well-being and valorization of urban spaces.**
- **Creating intelligent and connected spaces in order to realize the paradigm of Smart City.**
- **Realizing eco-friendly cities that reduce the environmental impact of the urban centres through the cut of the energy consumption and the reduction of the lighting pollution.**

COMMERCIAL LIGHTING

Transit areas, Offices, Retail areas

Today the market is looking for innovative lighting solutions for commercial spaces, indoor areas and transit areas. In these environments the light is a key element for enhancing the spaces and increasing people's wellbeing. With Greenled Industry luminaires, you can enhance the visual comfort through excellent lighting solutions that harmoniously integrate into your environments.

Thanks to our highly sophisticated luminaires and their modern design, the transition to new LED technology is quick and easy, with immediate benefits to the quality of the spaces that become more comfortable, safer and energy-efficient.

Furthermore, the lighting control system contributes to create customized and functional areas.

- **Reducing energy consumption. Fast payback time.**
- **Visual comfort, excellent colour perception and proper light that helps the concentration and ensures people's wellbeing**
- **Ensuring brilliant light and optimal lighting levels in order to increase the customer experience in the retail and commercial spaces**
- **Reducing CO2 emission and increasing environmental sustainability**



REFERENCES





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