



SMART SOLAR LIGHTING SOLUTIONS

Smarter Lighting.
Better Future.

100% SOLAR POWERED
ENGINEERED TO LAST





WELCOME

LIGHTING TOMORROW'S SMART CITIES WITH SUSTAINABLE SOLAR INNOVATION.

At **ZOLARIS** Luminaire, we believe that lighting has the power to transform spaces, enhance experiences, and build a brighter future.

Our smart solar lighting solutions combine innovative design, advanced technology, and sustainable energy to create intelligent infrastructure for modern cities, communities, and landmark projects.

From elegant decorative poles to high-performance smart systems, every **ZOLARIS** product is designed to deliver reliability, beauty, and long-term value.

We are proud to be part of your vision for a greener, smarter, and more connected world.



SUSTAINABLE
ENERGY



SMART
TECHNOLOGY



RELIABLE
PERFORMANCE



BETTER
CITIES

“

Light is more than illumination. It is the intelligence that shapes our cities and **connects our future.**





ABOUT ZOLARIS

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— L U M I N A I R E —

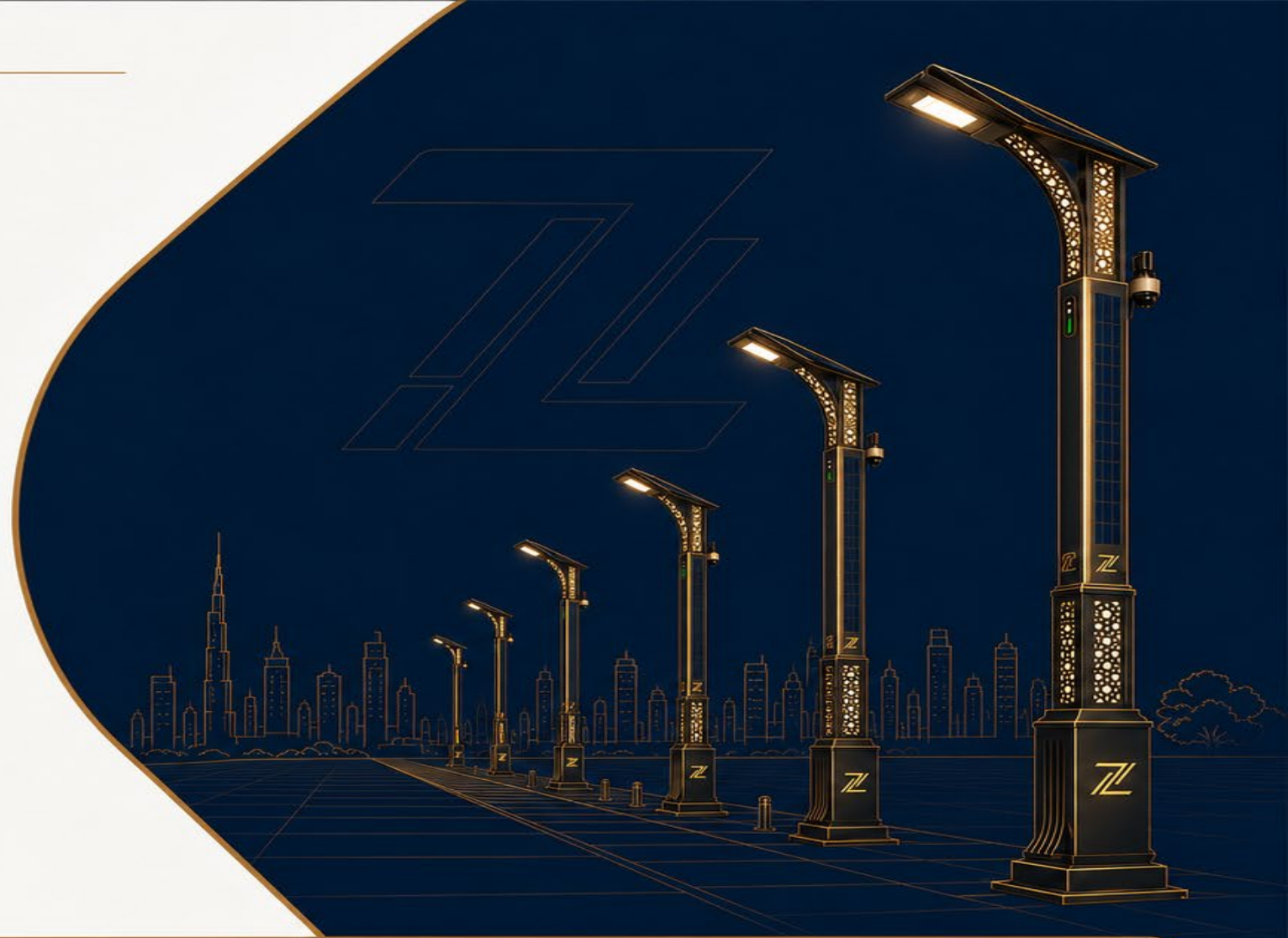
**We are more than a lighting company.
We are a technology-driven brand
building the future of smart cities.**

ZOLARIS Luminaire is a global provider of smart lighting solutions, combining advanced technology, elegant design, and sustainable energy to deliver intelligent infrastructure for modern life.

Our expertise covers the complete lighting ecosystem – from decorative solar poles, street lighting and solar bollards to smart city applications and integrated urban solutions.

With an in-house engineering team, state-of-the-art manufacturing, and strong R&D capability, we develop reliable, high-performance, and custom-made solutions tailored to every project.

ZOLARIS stands for innovation, quality, and long-term value – illuminating spaces, connecting communities, and creating a brighter, smarter, and more sustainable future.



GLOBAL VISION
Solutions for a
brighter world



ADVANCED TECHNOLOGY
Smart, reliable and
future-ready systems



SUSTAINABLE BY DESIGN
Clean energy for
a better tomorrow



CUSTOM MADE SOLUTIONS
Tailored to every
project need



PREMIUM QUALITY
Built to perform,
designed to last



ENERGY EFFICIENCY
Maximizing performance,
minimizing impact



EXPERT TEAM
Passionate professionals
dedicated to excellence



TRUST & PARTNERSHIP
Long-term relationships
built on trust



ZOLARIS
— L U M I N A I R E —

OUR VISION

Building greener,
smarter and more
beautiful cities.

We envision a world where clean energy and intelligent technology come together to create safe, efficient, and inspiring urban environments.

Through innovation in solar lighting and smart systems, **ZOLARIS** is shaping the future of sustainable living and connected communities.



L I G H T T O D A Y .
E M P O W E R T O M O R R O W .



SUSTAINABLE FUTURE

Promoting clean energy and reducing carbon footprint for a better planet.



SMART CITIES

Enabling connected, safe, and intelligent urban environments.



INNOVATIVE DESIGN

Creating aesthetic and functional lighting solutions that inspire.



BETTER COMMUNITIES

Improving quality of life through reliable and human-centered solutions.



WHY SOLAR?

Clean Energy. Unlimited Possibilities.

Solar energy is the most abundant, clean, and renewable resource on earth. By harnessing the power of the sun, **ZOLARIS** delivers lighting solutions that are not only intelligent and efficient but also environmentally responsible.



ZERO ELECTRICITY COST

Generate your own energy from the sun. No utility bills, no hidden costs.



EASY & FAST INSTALLATION

No trenching, no cabling. Plug & play design for quick deployment.



CLEAN & RENEWABLE

Zero carbon emissions. 100% green energy for a sustainable future.



ENERGY INDEPENDENT

Integrated battery systems ensure reliable performance night after night.



LOW MAINTENANCE

Built to last with high-quality components and smart self-diagnostics.



LONG TERM SAVINGS

Reduce operational costs and maximize return on investment.



“

Solar energy is not just a choice, it is the future we build today.

”

INTEGRATED SOLAR TECHNOLOGY

The Energy is Inside the Pole.
The Design is on the Outside.

ZOLARIS redefines solar lighting by integrating high-efficiency photovoltaic panels seamlessly into the pole body.

This innovation protects the technology, enhances aesthetics, and ensures maximum energy performance.



BUILT-IN SOLAR PANELS

High-efficiency PV cells integrated into the pole structure.



PROTECTED & DURABLE

Built-in design protects panels from damage, theft and vandalism.



WIND RESISTANT

Low wind load design ensures stability and long-term reliability.



AESTHETIC & CLEAN

No visible solar panels on top – pure, elegant architectural design.



ENERGY INDEPENDENT

Generates, stores and manages energy for autonomous operation.



HIGH EFFICIENCY

Maximum energy harvest with advanced MPPT technology.



SUSTAINABLE CHOICE

Zero carbon emissions for a cleaner and greener environment.



MULTIFUNCTIONAL

One pole – multiple smart features for future ready cities.



INTEGRATED PV PANELS

High-efficiency solar cells built into the pole generate clean energy all day long.



LiFePO4 BATTERY

Long-life, safe and reliable battery system for continuous performance.



SMART CONTROLLER

Advanced MPPT controller optimizes energy harvesting and power management.



IOT COMMUNICATION

Wireless connectivity for remote monitoring, control and analytics.



MODULAR DESIGN

Easy access compartments for maintenance and future upgrades.



INNOVATION HIDDEN.
PERFORMANCE REVEALED.

THE ENERGY IS INSIDE THE POLE

ZOLARIS poles are designed with integrated photovoltaic panels that are seamlessly built into the pole body – invisible, protected and highly efficient.

All components are engineered to work together as one smart system, ensuring reliability, elegance and maximum performance.



PROTECTED TECHNOLOGY

Integrated design protects solar cells from damage, vandalism and harsh weather.



BUILT FOR EXTREMES

Engineered to operate efficiently in temperatures from -40°C to +60°C.



LONG LIFE BATTERY

High-quality LiFePO4 battery ensures long life, stability and safety.



SMART INNOVATION

Advanced electronics, sensors and IoT connectivity for smart cities.



INTEGRATED PV PANELS

High-efficiency solar cells built into the pole body generate clean energy all day long.



LiFePO4 BATTERY

Safe, long-life battery system for reliable performance and energy independence.



SMART CONTROLLER

MPPT controller optimizes energy harvesting and power management for maximum efficiency.



IOT CONNECTIVITY

Remote monitoring, control and diagnostics through IoT platform.



SUSTAINABLE & SAFE

Low carbon emissions, safe operation and environmentally responsible.



HOW OUR TECHNOLOGY WORKS

ZOLARIS poles are intelligent energy columns. They harvest solar power, store it efficiently and deliver reliable, adaptive lighting all night long.

Every component is seamlessly integrated into the pole body, working together as one smart system.



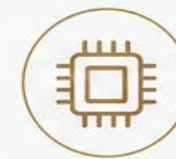
HARVEST

Integrated PV cells capture sunlight throughout the day.



STORE

Energy is stored in high-performance LiFePO4 batteries.



MANAGE

Smart controller optimizes efficiency, battery health and power distribution.



ILLUMINATE

High-efficiency LED luminaires provide consistent, glare-free and comfortable light.



CONNECT

IoT connectivity enables remote monitoring, control and analytics.

SMART INTEGRATION. MAXIMUM BENEFITS.



ZERO ELECTRICITY COST

Uses clean solar energy from the sun – every day.



HIGH RELIABILITY

Advanced components ensure stable performance in all conditions.



LOW MAINTENANCE

Durable design and smart diagnostics reduce maintenance time and cost.



SUSTAINABLE FUTURE

Reduces carbon footprint and supports green city initiatives.



SMART & ADAPTIVE

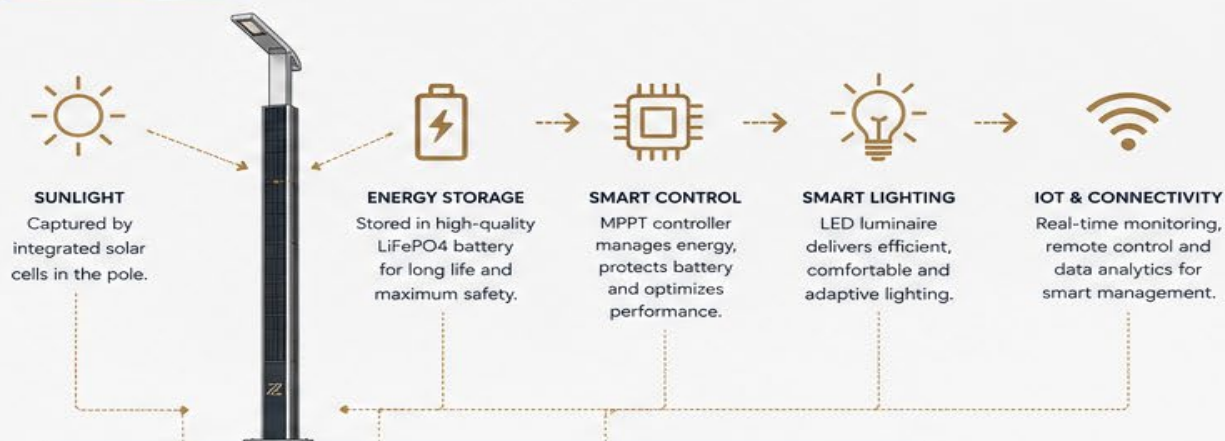
Adapts to environment, usage patterns and user needs.



SAFE & SECURE

Protected technology, built-in safety systems and vandal resistant design.

ALL-IN-ONE SMART SYSTEM



DESIGNED TO
HARMONIZE
WITH ANY ENVIRONMENT

ZOLARIS lighting solutions are engineered to blend seamlessly with modern architecture and natural landscapes.



Elegant Design



Built to Last



Smart Technology



Tailored Solutions



SOLAR BOLLARD
DAYLIGHT



SOLAR BOLLARD
NIGHT VIEW



PATHWAY
APPLICATION



URBAN
INSTALLATION



MULTI-ARM
SMART POLE

BUILT-IN SOLAR
TECHNOLOGY

The photovoltaic panels are fully integrated into the pole structure – not attached on the top.

Clean energy.
Invisible design.



LED LUMINAIRE
(High Efficiency)

SMART CONTROL UNIT
(IoT & Sensors)

INTEGRATED PV CELLS
(Built into the pole)

LIFEPO4 BATTERY
(High Capacity)

STRUCTURAL BODY
(Aluminum / Steel)

ONE POLE. MULTIPLE FUNCTIONS.



SOLAR ENERGY
HARVESTING
High-efficiency
integrated PV cells



ENERGY STORAGE
SYSTEM
Reliable LiFePO4
battery



SMART CONTROL
& SENSORS
Adaptive lighting
and monitoring



IOT
CONNECTIVITY
Remote control
and analytics



SAFETY &
DURABILITY
Weatherproof,
vandal resistant



ECO FRIENDLY
Zero emissions
& green future



EXTREME WEATHER
RESISTANT
-40°C to +60°C
operating range



LOW
MAINTENANCE
Long life, minimal
maintenance



COST
EFFICIENT
Saves installation
& energy cost



CUSTOM MADE
SOLUTIONS
Designed for your
unique projects

SMART ENERGY. MAXIMUM EFFICIENCY.

ZOLARIS poles are engineered to deliver maximum energy performance in all conditions. Smart algorithms, premium components and advanced engineering work together to ensure reliable lighting every single night.



HIGH SOLAR CAPTURE

Vertical integrated PV cells capture sunlight from multiple angles throughout the day.



SMART CHARGING

MPPT controller maximizes charging efficiency and protects battery life.



ENERGY OPTIMIZATION

AI-based system manages energy usage and adapts lighting levels intelligently.



BATTERY PROTECTION

Multi-level protection ensures safety, long life and stable performance.



EXTREME CLIMATE READY

Engineered to perform in extreme temperatures from -30°C to +60°C.



ALL WEATHER RELIABILITY

IP65+ rated design guarantees reliable operation in any weather.



LONG LIFESPAN

Premium LiFePO4 battery provides 3,000+ cycles and up to 10 years life.



GREEN & SUSTAINABLE

Zero electricity cost, zero emissions and minimal maintenance.



THE ENERGY JOURNEY



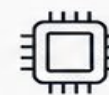
01. HARVEST

Integrated PV cells capture sunlight during the day.



02. STORE

Energy is stored in high-performance LiFePO4 battery.



03. MANAGE

Smart controller optimizes energy and protects the system.



04. ILLUMINATE

High efficiency LED luminaire delivers perfect light all night long.



05. CONNECT

IoT communication enables monitoring, control and analytics.

SMART LIGHTING MODES

Adaptive lighting for safety, comfort and energy savings.



FULL POWER MODE

100% brightness when motion is detected.



DIMMING MODE

Automatic brightness reduction during low traffic hours.



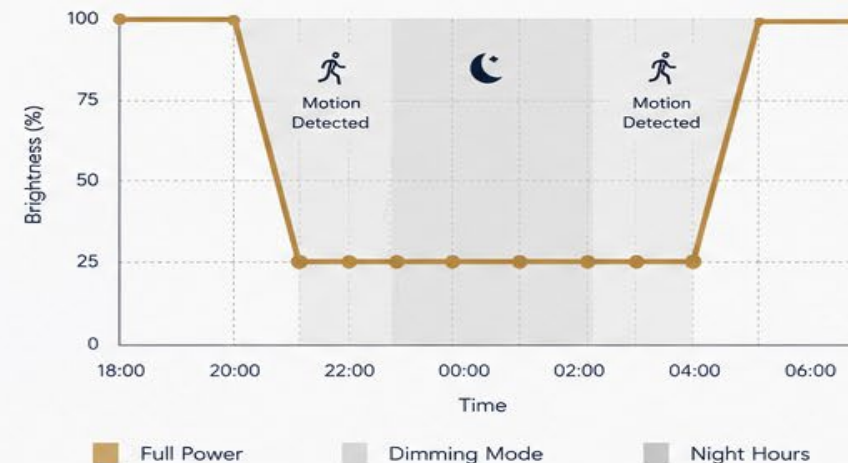
TIME SCHEDULE MODE

Predefined lighting programs for different time periods.



CUSTOM MODE

Fully customizable settings based on project needs.



ENGINEERED AS ONE. BUILT TO LAST.

Every ZOLARIS pole is a high-performance energy column that integrates solar generation, energy storage, intelligent control and smart connectivity in one elegant structure.

Designed for durability. Built for the future.

INSIDE THE POLE

All critical components are safely integrated inside the pole body.



100%

SOLAR POWERED

Clean energy from the sun



30,000+ hrs

LED LIFETIME

Long lasting, low maintenance



8-10 years

BATTERY LIFE

High performance LiFePO4



-30°C to +60°C

EXTREME WEATHER RESISTANT

Engineered for all climates



LED LUMINAIRE HEAD

High efficiency LED module with smart optics & sensors



SMART CONTROL & SENSORS

Motion, light, temperature and environmental sensors



MPPT CONTROLLER

Maximum Power Point Tracking for optimal energy harvest



LiFePO4 BATTERY

Long life, safe and reliable energy storage



INTEGRATED PV PANELS

High-efficiency solar cells built into the pole body



IoT COMMUNICATION MODULE

4G / NB-IoT / LoRa / Wi-Fi for remote management



MODULAR ACCESS DOOR

Easy access for maintenance and future upgrades

SMART FEATURES. INTELLIGENT CONTROL.



ADAPTIVE BRIGHTNESS

Automatic dimming based on real-time conditions



MOTION DETECTION

Increases brightness when movement is detected



WEATHER ADAPTIVE

Adjusts performance for maximum reliability in any weather



ENERGY MONITORING

Real-time monitoring of energy production and consumption



REMOTE MANAGEMENT

Control, monitor and manage from anywhere in the world



ALERT & DIAGNOSTICS

Instant fault detection and automated notifications

MODULAR BY DESIGN. CUSTOM-MADE FOR EVERY PROJECT.

ZOLARIS poles are available in different heights, configurations and options to meet any project requirement.



MULTIPLE HEIGHTS

3m - 14m or custom



VARIOUS ARM DESIGNS

Single, double, triple or custom configurations



SMART CITY READY

CCTV, Wi-Fi, loudspeaker, air quality sensor



OPTIONAL ADD-ONS

EV Charger, USB charging, information display



DECORATIVE MATCH

Finishes and patterns match your urban identity



CUSTOM FINISHES

Any RAL color or premium coating



REAL PROJECTS. REAL PERFORMANCE.

ZOLARIS smart solar poles and bollards are installed in a wide range of environments providing reliable, sustainable and cost-effective lighting solutions.

Each project is a proof of our commitment to quality, innovation and long-term performance.

REAL INSTALLATIONS



INDUSTRIAL FACILITIES

Reliable lighting for factories, campuses and warehouses.



PARKING AREAS

Safe, independent lighting for outdoor parking lots.



PARKS & GARDENS

Elegant and sustainable lighting for green spaces and walkways.



STREETS & HIGHWAYS

High efficiency and visibility for roads, streets and boulevards.



SECURE AREAS

Autonomous lighting for perimeter, security and remote areas.

REAL BENEFITS. LASTING VALUE.



100%

SOLAR POWERED

Clean and renewable energy from the sun.



0

ELECTRICITY COST

Zero grid connection and zero electricity bills.



-70%

INSTALLATION TIME

No trenching, no cable, no complex infrastructure.



30,000+

HOURS LIFETIME

Long-lasting LED and battery system for reliable lighting.



Low

MAINTENANCE

Smart diagnostics and robust design reduce maintenance & costs.



CO₂

EMISSIONS SAVED

Contributes to a greener planet and sustainable cities.

DESIGNED FOR EVERY ENVIRONMENT



STREETS & BOULEVARDS



HIGHWAYS & ROADS



PARKING LOTS & CAR PARKS



PARKS & GARDENS



INDUSTRIAL CAMPUSES



SECURE & REMOTE AREAS



SCHOOLS & UNIVERSITIES



COMMERCIAL AREAS



HOTELS & RESORTS



SMART CITIES & URBAN PROJECTS

INTEGRATED DESIGN. INTELLIGENT FUNCTION.

Every detail of ZOLARIS poles and bollards is carefully engineered to deliver superior performance, durability and aesthetics.

The solar system is fully integrated into the body — not added on top — for a clean, modern and efficient design.

SMART DESIGN FEATURES

LED LUMINAIRE HEAD
High efficiency LED with optics & sensors

INTEGRATED PV CELLS
High-efficiency monocrystalline solar cells built into the pole

MODULAR ACCESS DOOR
Easy access for maintenance and future upgrades

PREMIUM FINISH
Corrosion resistant, UV protected and anti-graffiti coating

SMART SENSORS
Motion, light, temperature and environmental sensors

MPPT CONTROLLER
Advanced MPPT technology for maximum energy harvest

LiFePO4 BATTERY
Safe, long-lasting and high temperature resistant

ENGINEERED STRUCTURE
Wind resistant, vibration tested and built for extreme conditions

TECHNICAL SPECIFICATIONS

	Solar Panel	Integrated Monocrystalline (Up to 360W)
	Battery	LiFePO4 (Up to 768Wh)
	LED Power	20W – 120W
	Luminous Efficacy	Up to 180 lm/W
	CCT	3000K / 4000K / 5700K
	IP Rating	IP65 / IP66
	Working Temperature	-30°C to +60°C
	Charging Time	4 – 6 hours (Full Sun)
	Autonomy	3 – 5 nights (Depending on configuration)
	Mounting Height	3m – 14m+
	Wind Resistance	Up to 160 km/h
	Certifications	CE / RoHS / IEC / ISO 9001

ENGINEERED FOR EXTREME CONDITIONS



EXTREME HEAT RESISTANCE

Designed to operate in high temperatures up to +60°C without compromising performance.



EXTREME COLD RESISTANCE

Reliable performance in extreme cold environments down to -30°C.



WIND & STORM RESISTANCE

Engineered structure tested for winds up to 160 km/h and harsh weather conditions.



IP65 / IP66 PROTECTION

Dust-tight and water-resistant protection for long-term outdoor durability in all environments.

BUILT FOR THE FUTURE



MODULAR & UPGRADEABLE

Components are modular for easy maintenance and technology upgrades.



IOT ENABLED

Real-time monitoring, remote control and data analytics for smart city management.



SUSTAINABLE BY DESIGN

Zero emissions, clean energy and responsible manufacturing for a greener planet.



LONG LIFE INVESTMENT

High quality materials and components ensure low total cost of ownership and maximum return.



SMART CITY READY

Fully compatible with smart city infrastructure and future technologies.

“
INTELLIGENT TODAY.
SUSTAINABLE TOMORROW.
BUILT TO LAST.
”

SMART SOLUTIONS. SIMPLE INSTALLATION.

ZOLARIS smart solar poles and bollards are designed for quick, easy and cost-effective installation.

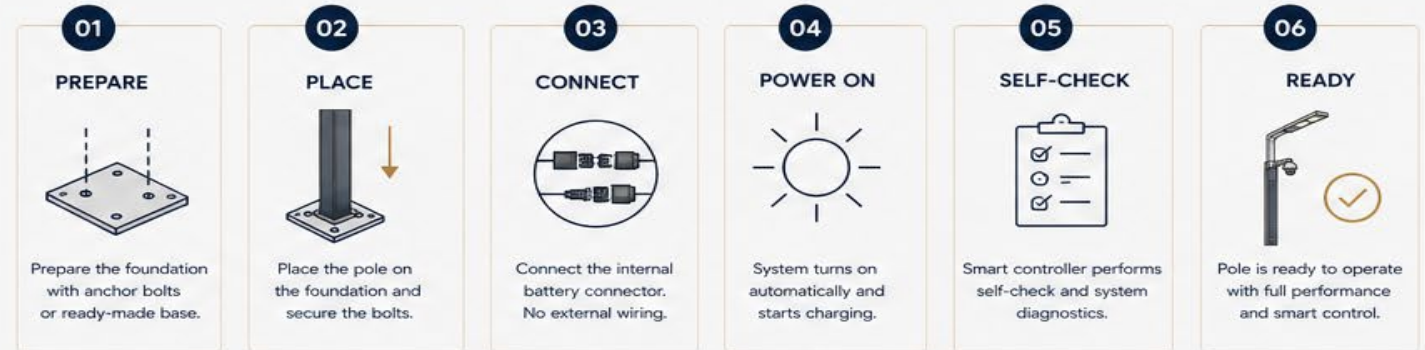
No trenching. No external cabling.
No grid connection.
Just smart, clean and efficient lighting.



PLUG & LIGHT

Engineered for fast deployment and immediate operation.

EASY INSTALLATION PROCESS



NO GRID CONNECTION



NO TRENCHING
NO CABLING



UP TO 70%
INSTALLATION
TIME SAVED



LOWER LABOR
AND MATERIAL
COSTS



MINIMAL SITE
DISRUPTION



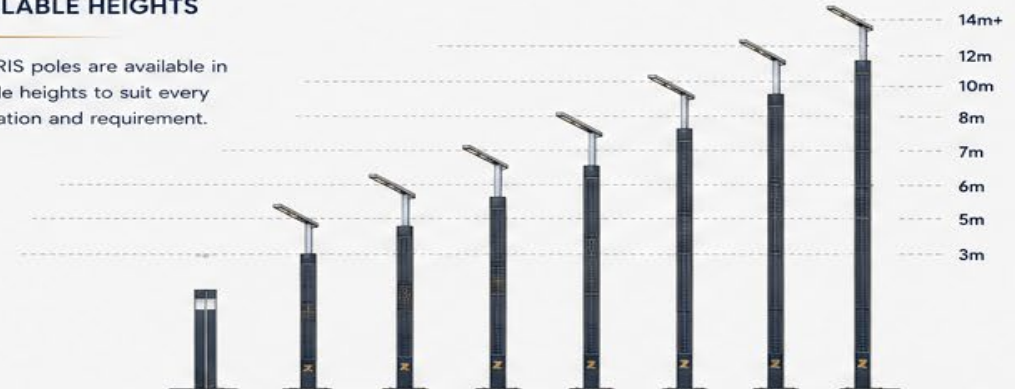
SAFE, RELIABLE
AND DURABLE

ADAPTABLE CONFIGURATIONS



AVAILABLE HEIGHTS

ZOLARIS poles are available in multiple heights to suit every application and requirement.



SMART CONTROL. TOTAL CONTROL.

ZOLARIS smart lighting system is equipped with intelligent controls that adapt to real-time conditions for maximum efficiency, safety and user comfort.



INTELLIGENT FEATURES



AUTOMATIC ADAPTATION
Dynamically adjusts brightness based on ambient light and motion detection.



ENERGY OPTIMIZATION
Smart algorithms maximize energy savings and extend battery life.



SAFETY FIRST
Motion sensors and real-time alerts enhance safety in public spaces.



REMOTE MONITORING
Monitor, control and manage your lighting network from anywhere, anytime.



CUSTOM SETTINGS
Create schedules, dimming profiles and lighting scenes with ease.



DATA & ANALYTICS
Access performance reports and insights to make smarter decisions.

ADVANCED SENSOR TECHNOLOGY



MOTION SENSOR
Detects movement and increases brightness when needed.



DAYLIGHT SENSOR
Measures natural light and optimizes output accordingly.



TEMPERATURE SENSOR
Monitors temperature to protect battery and ensure optimal performance.



WEATHER SENSOR
Adapts system behavior based on weather conditions in real time.



VIBRATION SENSOR
Detects abnormal vibrations and alerts for immediate action.

CONNECTED ECOSYSTEM



BLUETOOTH
MESH



CLOUD
PLATFORM



USER INTERFACE
(Web & Mobile)



Real-time
Monitoring



Remote
Control



Over-the-Air
Updates



Fault
Management



Asset
Tracking

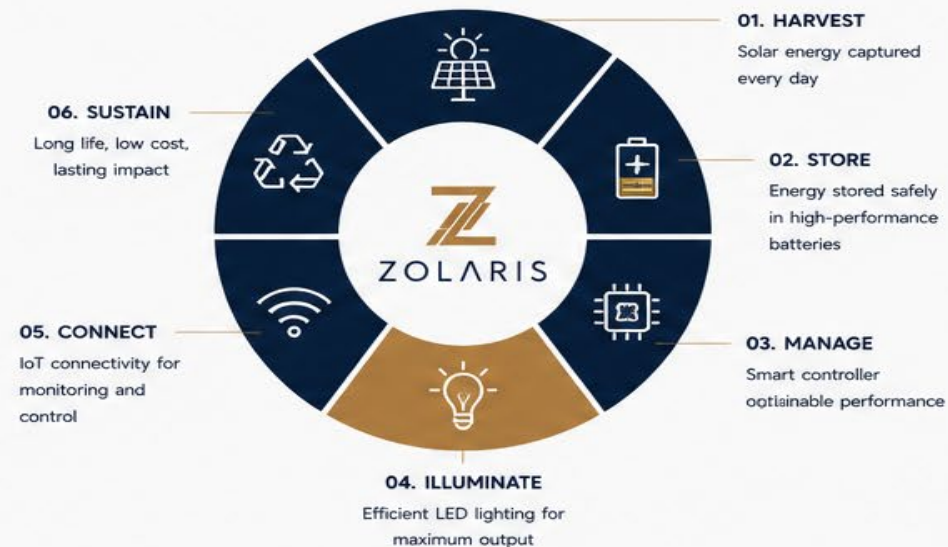
SUSTAINABLE TODAY. BETTER TOMORROW.

ZOLARIS is committed to a cleaner planet by delivering smart solar lighting solutions that reduce carbon emissions, conserve energy and protect our environment for future generations.

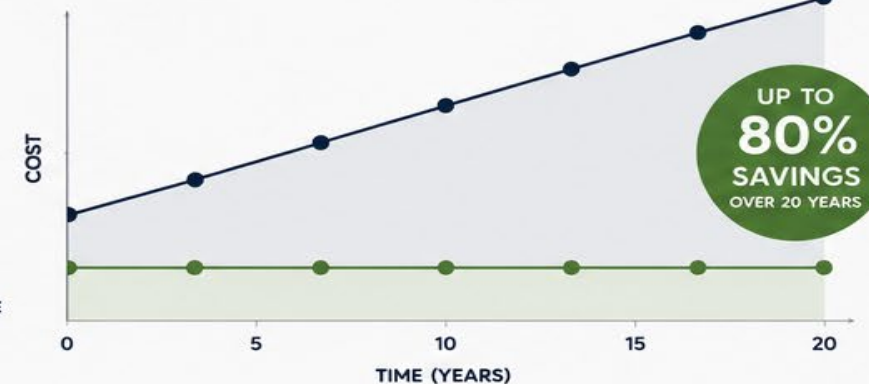
ENVIRONMENTAL IMPACT



LIFECYCLE BENEFITS



ENERGY & COST SAVINGS OVER TIME



BUILT FOR A SUSTAINABLE WORLD

- ✓ Supports global clean energy goals
- ✓ Reduces dependence on fossil fuels
- ✓ Helps create greener, smarter cities
- ✓ Designed for a long and responsible life
- ✓ Promotes a better future for all

INTELLIGENT SYSTEM. COMPLETE ECOSYSTEM.

ZOLARIS delivers more than lighting. We deliver a complete smart solar ecosystem designed to work together seamlessly for maximum performance, reliability and value.



**ONE SYSTEM.
ONE PLATFORM.
ENDLESS POSSIBILITIES.**

THE ZOLARIS SMART SOLAR SYSTEM



ZOLARIS PRODUCT ECOSYSTEM



SMART SOLAR POLES
Adaptive lighting for streets, roads and public spaces.



SMART SOLAR BOLLARDS
Ideal for pathways, gardens, parks and pedestrian areas.



SMART CONTROL PLATFORM
Real-time monitoring, control and analytics from anywhere.



ENERGY STORAGE
Advanced LiFePO4 batteries for long life and high safety.



SMART SENSORS
Collect data, improve efficiency and enhance safety.



CLOUD SERVICES
Secure data management, updates and system automation.

CERTIFIED QUALITY. TRUSTED PERFORMANCE.



9001:2015
Quality Management System



14001:2015
Environmental Management



45001:2018
Occupational Health & Safety



CE
European Conformity



IEC
International Standards



RoHS
Restriction of Hazardous Substances



All ZOLARIS products are designed and manufactured under strict quality control processes to ensure safety, durability and superior performance.

WARRANTY & SUPPORT



5 YEARS WARRANTY
Comprehensive warranty on all components for peace of mind.



EXPERT SUPPORT
Dedicated technical support team whenever you need us.



SPARE PARTS
Reliable supply of genuine spare parts worldwide.



SOFTWARE UPDATES
Continuous improvements and new features over-the-air.



WE ARE WITH YOU, EVERY STEP OF THE WAY.
From planning to installation and beyond.

BUILT FOR EVERY SPACE. DESIGNED TO PERFORM.

ZOLARIS smart solar lighting solutions adapt to a wide range of environments and applications.

From urban streets to remote areas, from public infrastructure to private spaces — reliable, efficient and sustainable lighting you can trust.



IDEAL FOR URBAN AND REMOTE APPLICATIONS

Sustainable lighting that supports modern infrastructure and a greener future.

APPLICATION AREAS



HIGHWAYS & ROADS
Safe, reliable lighting for high traffic and fast moving areas.



STREETS & URBAN AREAS
Enhances safety and aesthetics for modern cities.



PARKS & GARDENS
Perfect for walkways, green spaces and public parks.



PARKINGS
Cost-effective and independent lighting for open parking areas.



INDUSTRIAL AREAS
Durable and low-maintenance lighting for industrial zones.



REMOTE & OFF-GRID AREAS
Independent lighting for areas without grid access.



RESIDENTIAL & COMMUNITIES
Improves security and comfort in residential environments.



CAMPUSES & INSTITUTIONS
Reliable lighting for schools, universities and facilities.

WHY CHOOSE ZOLARIS?



100% RENEWABLE ENERGY

Clean, green and sustainable power.



LOW OPERATING COSTS

Minimal maintenance and no electricity bills.



HIGH RELIABILITY

Engineered for long life and maximum safety.



EASY TO INSTALL

No trenching, no cabling, no grid connection.



ALL WEATHER PERFORMANCE

Designed to perform in extreme conditions.



SMART & EFFICIENT OPERATION

Intelligent controls for maximum efficiency.



**SMART LIGHTING
FOR A SMARTER
AND SUSTAINABLE
WORLD.**

ADVANCED TECHNOLOGY. SUPERIOR PERFORMANCE.

ZOLARIS combines cutting-edge components with intelligent engineering to deliver unmatched reliability, efficiency and durability.

Every detail is designed to maximize energy capture, storage and usage.



ENGINEERED TO EXCEL

High quality components and smart design for long lasting performance you can depend on.



KEY COMPONENTS



HIGH EFFICIENCY SOLAR PANEL
Monocrystalline solar cells with up to 23% efficiency for maximum energy harvest.



LIFEPO4 BATTERY
Long-life LiFePO4 battery with high cycle life, deep discharge protection and superior safety.



SMART CONTROLLER
MPPT technology and intelligent energy management for optimal charging and discharging.



PREMIUM LED LUMINAIRES
High performance LEDs with excellent light output, uniformity and long lifespan.



SMART SENSORS
Motion, day-light and environmental sensors for adaptive brightness and energy savings.



DURABLE DESIGN
Corrosion resistant materials, IP66 protection and IK10 impact resistance for harsh conditions.

BATTERY & PERFORMANCE



- ✓ High capacity LiFePO4 battery
- ✓ 2000+ charge cycles
- ✓ Built-in BMS protection
- ✓ Zero maintenance
- ✓ 10+ years battery life

EXTREME TEMPERATURE PERFORMANCE



Designed to operate reliably in temperatures from -30°C to +60°C

POLE COLOR OPTIONS



Custom colors available upon request.

ENGINEERED FOR RELIABILITY. BUILT TO LAST.

ZOLARIS products are designed, tested and manufactured to the highest standards to ensure reliable performance for many years, in any environment.



RIGOROUS QUALITY PROCESS



BUILT TO WITHSTAND



CERTIFICATIONS & COMPLIANCE



All ZOLARIS products are manufactured in certified facilities and comply with international standards and regulations.

QUALITY ASSURANCE



- ✓ 5 Years Product Warranty
- ✓ Long Life Components
- ✓ Strict Quality Control
- ✓ Global Standards
- ✓ Peace of Mind



ALWAYS HERE TO SUPPORT YOU

Our dedicated technical support team is always ready to assist you, from project planning to after-sales service.



TECHNICAL SUPPORT



SPARE PARTS AVAILABILITY



AFTER-SALES SERVICE

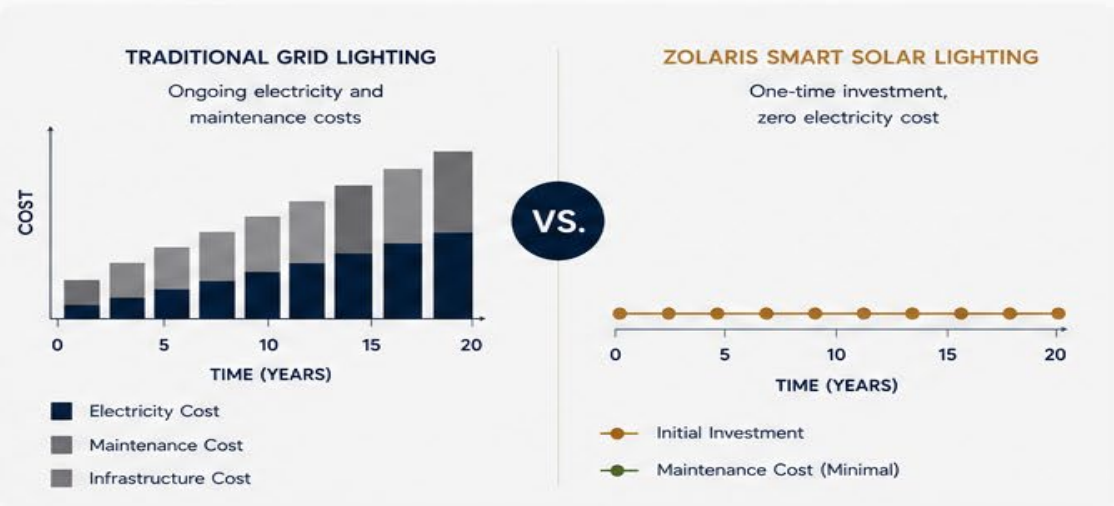
SMART ENERGY. MAXIMUM SAVINGS.

ZOLARIS smart solar lighting solutions eliminate electricity costs, reduce maintenance and installation expenses, and deliver exceptional long-term value for any project.



ZERO ELECTRICITY BILLS
Generate, store and use clean solar energy 100% off-grid.

ENERGY SAVINGS COMPARISON



SUSTAINABLE & COST-EFFECTIVE

UP TO

80%

TOTAL COST SAVINGS
OVER 20 YEARS

WHERE SAVINGS COUNT

STREET & ROAD LIGHTING

PARKINGS

PARKS & GARDENS

RESIDENTIAL & COMMUNITIES

CAMPUSES & INSTITUTIONS

INDUSTRIAL SITES

REMOTE & OFF-GRID AREAS

PUBLIC INFRASTRUCTURE

INVEST TODAY, BENEFIT TOMORROW

- ✓ No trenching, no cabling, lower installation cost
- ✓ No electricity connection or monthly bills
- ✓ Minimal maintenance and operating cost
- ✓ Reliable performance for decades
- ✓ Increase property value and sustainability
- ✓ Fast return on investment



INNOVATION THAT POWERS THE FUTURE.

ZOLARIS continuously invests in research and development to bring innovative smart solar lighting solutions that anticipate tomorrow's needs.

We combine advanced technology, intelligent design and sustainable thinking to build a brighter future for everyone.



R&D FOCUS AREAS



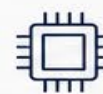
HIGH EFFICIENCY SOLAR TECHNOLOGY

Improving solar cell efficiency for more energy harvest.



ADVANCED BATTERY SYSTEMS

Developing next-generation batteries for longer life and higher safety.



SMART CONTROL & IoT INTEGRATION

Creating intelligent systems for real-time monitoring and optimization.



EXTREME ENVIRONMENT ADAPTABILITY

Engineering for reliable performance in extreme heat and cold.



SUSTAINABLE MATERIALS

Using eco-friendly materials for a greener tomorrow.



COMMITTED TO CONTINUOUS IMPROVEMENT

We follow global standards and industry best practices to ensure our solutions remain at the forefront of innovation and quality.



SMART FEATURES THAT MAKE A DIFFERENCE



ADAPTIVE BRIGHTNESS
Automatically adjusts to movement and ambient light.



SCHEDULING & DIMMING
Set custom lighting schedules to match project needs.



INTELLIGENT POWER MANAGEMENT
Optimizes energy usage for maximum efficiency.



REMOTE MONITORING
Access system data and performance anytime, anywhere.



FAULT DETECTION
Real-time alerts for quick maintenance response.



SECURE & RELIABLE
Advanced cybersecurity for safe data and system protection.

A GREENER IMPACT



REDUCE CARBON EMISSIONS

CO₂

Significantly lower your carbon footprint.



CLEAN & RENEWABLE ENERGY

100%

Powered by the sun, zero emissions.



BUILD SUSTAINABLE CITIES

BETTER FUTURE

Creating smarter, safer and more sustainable communities.



SMART SOLAR LIGHTING TAILORED TO YOUR NEEDS.

Every project is unique. That's why ZOLARIS provides fully customizable smart solar lighting solutions that fit your exact requirements.

From product configuration to intelligent software integration, we design solutions that deliver value, performance and sustainability.



Custom Design

Solutions designed for your project needs.



System Integration

Hardware, software and smart controls working seamlessly together.



Scalable Solutions

From a single unit to large-scale deployments.



End-to-End Support

We support you at every step of the way.



OUR SOLUTIONS INCLUDE



SMART SOLAR POLES

Integrated solar, intelligent lighting and smart controls.



SMART SOLAR BOLLARDS

Compact and elegant solutions for pathways, gardens and landscapes.



BUILT-IN SOLAR TECHNOLOGY

Solar panels integrated into the pole or bollard structure.



SMART SOFTWARE PLATFORM

Remote monitoring, data analytics and real-time control.



ENERGY STORAGE SOLUTIONS

High-performance batteries for reliable and long-lasting operation.



AFTER-SALES SERVICE

Maintenance, technical support and spare parts.

OUR SOLUTION PROCESS



1. CONSULT

We understand your requirements.



2. DESIGN

We create the best solution for your project.



3. DEVELOP

We engineer and integrate the system.



4. TEST

Rigorous testing for performance and quality.



5. DELIVER & SUPPORT

On-time delivery and ongoing support.

IDEAL FOR A WIDE RANGE OF APPLICATIONS



ROADS &
HIGHWAYS



PARKINGS



PARKS &
GARDENS



RESIDENTIAL &
COMMUNITIES



INDUSTRIAL
SITES



CAMPUSES &
INSTITUTIONS



AIRPORTS &
REMOTE AREAS

PROJECT APPLICATIONS



HIGHWAYS



PARKINGS



PARKS & GARDENS



RESIDENTIAL AREAS



INDUSTRIAL SITES



REMOTE AREAS

WHY ZOLARIS?

Choosing ZOLARIS means investing in intelligent, sustainable, and future-ready infrastructure.

Our smart solar lighting systems are engineered to deliver outstanding performance, exceptional reliability, and long-term value while eliminating the need for conventional electrical infrastructure.



WHAT MAKES US DIFFERENT



INTEGRATED VERTICAL SOLAR TECHNOLOGY

Solar panels are seamlessly integrated into the pole structure for maximum protection and aesthetics.



SMART ENERGY MANAGEMENT

Advanced software optimizes charging, battery performance and lighting output for maximum efficiency.



CUSTOM-MADE ENGINEERING

Every project can be designed according to architectural, technical and environmental requirements.



ZERO ELECTRICITY COST

Operates entirely on renewable solar energy, significantly reducing operational expenses.



FAST INSTALLATION

No trenching, underground cabling, transformers or complex electrical infrastructure.



MINIMAL MAINTENANCE

Industrial-grade components with long-life LiFePO₄ batteries and intelligent monitoring.



SMART CITY READY

Prepared for IoT devices, AI platforms, CCTV, sensors, Wi-Fi, EV charging and future digital services.



BUILT FOR EXTREME CONDITIONS

Designed to perform reliably in high or low temperatures, coastal areas and harsh environments.

INDUSTRIES WE SERVE



SMART CITIES



MUNICIPALITIES



HIGHWAYS



AIRPORTS



SEAPORTS



INDUSTRIAL ZONES



UNIVERSITIES



HOSPITALS



PARKS & GARDENS



RESIDENTIAL COMMUNITIES



COMMERCIAL DEVELOPMENTS



TOURISM PROJECTS



LUXURY RESORTS



MILITARY FACILITIES



OIL & GAS FACILITIES



ENGINEERED FOR TODAY.

DESIGNED FOR TOMORROW.

POWERED BY THE SUN.



OUR SOLUTIONS

-  Smart Solar Lighting Poles
-  Smart Solar Bollards
-  Smart City Infrastructure
-  Architectural Lighting
-  Custom Engineering
-  AI & IoT Integration
-  Off-Grid Energy Systems
-  Complete Turnkey Solutions

GLOBAL APPLICATIONS

- | | | | |
|---|--|---|--|
| 
SMART CITIES | 
HIGHWAYS | 
PARKS & LANDSCAPES | 
PARKING AREAS |
| 
INDUSTRIAL FACILITIES | 
HOTELS & RESORTS | 
AIRPORTS | 
COMMERCIAL DEVELOPMENTS |
| 
RESIDENTIAL COMMUNITIES | 
UNIVERSITIES & CAMPUSES | 
HOSPITALS & HEALTHCARE | 
GOVERNMENT & MILITARY |

CONTACT

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ZOLARIS

LUMINAIRE

ENGINEERING THE FUTURE OF SMART SOLAR LIGHTING

Integrated. Intelligent. Independent.

ZOLARIS Luminaire is redefining outdoor lighting through integrated solar technology, intelligent energy management, and custom-engineered solutions for modern infrastructure.

From highways and smart cities to parks, airports, industrial facilities, and architectural developments, every ZOLARIS solution is designed to deliver exceptional performance, sustainability, and long-term value.

Lighting the World with Intelligent Solar Innovation



FOLLOW US



zolarisluminaire.com



VISIT OUR WEBSITE

OUR PRODUCT FAMILIES

INTELLIGENT LIGHTING. ENDLESS POSSIBILITIES.

ZOLARIS offers a complete range of smart solar lighting solutions engineered to perform in all environments, from urban streets to premium landscapes.

Each product is designed with integrated vertical solar technology, intelligent control systems and premium components to deliver maximum efficiency, aesthetic excellence and long-term value.

SMART SOLAR POLES

ZENITH
All in One



Modern. Robust.
Future Ready.

NOVA
Split Type



Flexible. Efficient.
High Performance.

ORION
All in One



Powerful. Elegant.
Smart Control.

VEGA
Split Type



Versatile. Reliable.
Designed to Last.

AURORA
All in One



Decorative. Premium.
Architectural.

NEXUS
Split Type



Innovative. Scalable.
Smart Infrastructure.

SMART SOLAR BOLLARDS

NEXA



Compact. Durable.
Elegant.

TERRA



Minimal. Modern.
Functional.

VISTA



Stylish. Ambient.
Landscape Ready.

LUXA



Luxury. Decorative.
Timeless.

SPECIAL SYSTEMS

SMART CITY
POLE



SECURITY
POLE



EMERGENCY
BACKUP POLE



AI SMART
SOLAR POLE



CUSTOM DESIGN
SERIES



100% SOLAR POWERED
Clean energy for a greener future.



LONG LIFE
LiFePO₄ battery with extended life cycles.



BUILT TO LAST
High quality materials for extreme conditions.



SMART CONTROL
Intelligent software for maximum efficiency.



ZERO EMISSIONS
Reducing carbon footprint for a sustainable world.



LOW MAINTENANCE
Reliable components for minimal maintenance.



SMART SOLAR POLES COLLECTION

INTELLIGENCE IN EVERY DETAIL

ZOLARIS smart solar poles combine advanced technology, superior design, and sustainable energy to deliver reliable lighting solutions for every environment.

Each model is engineered with integrated vertical solar technology and intelligent systems to ensure maximum performance, minimal maintenance, and long service life.

ZENITH™ All in One	NOVA™ Split Type	ORION™ All in One	VEGA™ Split Type	AURORA™ All in One	NEXUS™ Split Type
All-in-One Design High Output Smart Control	Split Solar Flexible Efficient	Powerful Durable Reliable	Versatile Modern High Performance	Decorative Premium Architectural	Innovative Scalable Smart Infrastructure

WHY CHOOSE ZOLARIS SMART SOLAR POLES?

100% SOLAR POWERED Clean, renewable energy for a greener future.	COST EFFECTIVE Zero electricity cost and low maintenance.
NO GRID CONNECTION No underground cabling or electrical infrastructure.	BUILT TO LAST High-quality materials for extreme conditions.
INTELLIGENT SYSTEMS Smart control, adaptive dimming, and remote monitoring.	FUTURE READY IoT ready, smart city compatible.

AVAILABLE MOUNTING OPTIONS

Single Arm	Double Arm	Side Arm	Multiple Arm

POLE HEIGHT RANGE

3m — 4m — 6m — 8m — 10m — 12m
CUSTOM HEIGHTS AVAILABLE UPON REQUEST

POLE FINISH OPTIONS

Anthracite Grey	Matte Black	Silver Grey	Custom RAL Colors	Wood Finish	Corten Brown

CERTIFICATIONS

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ENGINEERED FOR TODAY. | DESIGNED FOR TOMORROW.
BUILT FOR GENERATIONS.



ZENITH™

SMART SOLAR POLE

The Flagship of Intelligent Solar Lighting

ZENITH™ represents the next generation of smart solar infrastructure, combining integrated vertical solar technology, intelligent energy management, premium design, and high-performance LED lighting into one elegant solution.

Designed for smart cities, highways, airports, premium developments, municipalities, and commercial projects, ZENITH delivers outstanding performance while eliminating the need for conventional electrical infrastructure.



100% SOLAR POWERED
Zero electricity consumption and lower carbon footprint.



BUILT TO LAST
High quality materials for extreme conditions and long service life.



LOW MAINTENANCE
Minimal maintenance with smart diagnostics and remote monitoring.



SMART CONTROL
Adaptive dimming, motion sensors and intelligent lighting management.



FAST INSTALLATION
No underground cabling, quick installation and lower labor cost.



LIFEPO₄ BATTERY
High capacity battery with > 6,000 cycles for reliable and safe performance.

KEY FEATURES

- 
INTEGRATED VERTICAL SOLAR PANELS
High-efficiency PV panels integrated into the pole body for maximum protection and aesthetic integration.
- 
INTELLIGENT ENERGY MANAGEMENT
Advanced software continuously monitors and optimizes solar generation, battery status and energy consumption.
- 
HIGH-PERFORMANCE LED LIGHTING
Premium optical systems deliver uniform illumination with low glare and exceptional efficiency.
- 
LIFEPO₄ BATTERY TECHNOLOGY
Long life battery system designed for more than 6,000 charging cycles.
- 
SMART CONNECTIVITY
Optional integration with Smart City Platforms, IoT, CCTV, Sensors, Wi-Fi, EV Charging and more.
- 
BUILT FOR EVERY CLIMATE
Designed to operate in extreme environments from -30°C to +60°C with IP66 / IK10 protection.

TECHNICAL HIGHLIGHTS

Solar Technology	Integrated Vertical PV
Battery	LiFePO ₄
Control	Smart Adaptive Dimming
Connectivity	IoT Ready
Protection	IP66 / IK10
Operation	Fully Autonomous
Installation	No Grid Required
Design	Customizable



IDEAL APPLICATIONS

-  Smart Cities
-  Urban Roads
-  Boulevards
-  Public Parks
-  Airports
-  Universities
-  Business Districts
-  Industrial Areas
-  Luxury Developments

ENGINEERED TO EXCEL

Premium materials, intelligent technology and precise engineering for maximum performance and long-term value.



ZENITH™ IS MORE THAN A LIGHTING POLE.

IT IS A COMPLETE SMART SOLAR INFRASTRUCTURE SOLUTION
ENGINEERED FOR THE CITIES OF TOMORROW.

CUSTOM ENGINEERING WITHOUT LIMITS

Every project is different.

At ZOLARIS Luminaire, we don't simply supply lighting products—we engineer complete smart solar solutions tailored to each project's architectural vision, environmental conditions, technical requirements, and sustainability objectives.

Whether it's a landmark boulevard, luxury resort, smart city development, airport, university, or public park, every system can be fully customized.



CUSTOMIZATION OPTIONS



ARCHITECTURE & DESIGN

- Pole shapes
- Decorative designs
- Luxury architectural finishes
- Custom dimensions
- Single & multi-arm configurations



INTEGRATED SOLAR TECHNOLOGY

- Vertical integrated solar panels
- Multi-sided solar surfaces
- Hidden solar integration
- Customized solar capacity



LIGHTING SOLUTIONS

- Street lighting
- Area lighting
- Decorative lighting
- Pedestrian lighting
- Landscape lighting
- Bollards



SMART TECHNOLOGIES

- AI Control
- Motion Sensors
- CCTV Integration
- Public Wi-Fi
- Environmental Sensors
- Emergency Systems
- EV Charging
- Digital Displays



MATERIALS & FINISHES

- Aluminum
- Stainless Steel
- Galvanized Steel
- Marine Grade Coating
- Anti-Corrosion Protection
- Unlimited RAL Colors



ENERGY SYSTEMS

- Hybrid Solar + Grid
- Off-Grid
- Battery Backup
- Smart Energy Storage
- High Capacity LiFePO₄ Batteries



OUR ENGINEERING PROCESS



CONCEPT



DESIGN



SIMULATION



PROTOTYPE



MANUFACTURING



INSTALLATION



SMART
COMMISSIONING



LIFETIME
SUPPORT

“

IF YOU CAN IMAGINE IT, ZOLARIS CAN ENGINEER IT.



SMART SOLAR BOLLARDS COLLECTION

ELEGANCE. INTELLIGENCE. SUSTAINABILITY.

ZOLARIS smart solar bollards bring intelligent technology and modern design together to create beautiful, sustainable lighting solutions for people-centric environments.

Compact, energy-efficient, and built for durability, our bollards enhance safety, aesthetics, and landscapes while eliminating electricity costs and complex infrastructure.

OUR SMART SOLAR BOLLARDS RANGE

NEXA™ Classic	TERRA™ Square	VISTA™ Round	LUXA™ Decorative	LUMA™ Slim	ORBIS™ Minimal
Timeless Design High Efficiency Smart Control	Modern Style Compact Structure Low Maintenance	360° Lighting Durable Build Weather Resistant	Premium Look Ambient Lighting Architectural Design	Slim Profile Space Saving Elegant Lighting	Minimal Design Power Saving Smart Energy

KEY ADVANTAGES

- ✓ 100% Solar Powered
- ✓ No Electricity Cost
- ✓ No Underground Cabling
- ✓ Quick & Easy Installation
- ✓ High Vandal Resistance
- ✓ Elegant Architectural Design
- ✓ Long Service Life
- ✓ Low Maintenance



TECHNICAL OVERVIEW

Solar Integration	Vertical Integrated PV
Battery	LiFePO ₄
Control	Smart Dimming
Protection	IP66 / IK10
Material	Aluminum / Steel
Installation	Plug & Play
Maintenance	Minimal
Operating Temperature	-30°C to +60°C
Warranty	Up to 5 Years

IDEAL APPLICATIONS.

Parks & Gardens	Walkways & Paths	Residential Communities
Hotels & Resorts	Universities & Campuses	Commercial Areas
Waterfront Developments	Landscape Projects	Smart Cities



INTELLIGENT TECHNOLOGY IN EVERY DETAIL.
BEAUTIFUL LIGHTING IN EVERY SPACE.
A BETTER FUTURE FOR EVERY GENERATION.

SMART SYSTEMS INTEGRATION

- Adaptive Smart Dimming
Automatically adjusts brightness for maximum efficiency.
- Day/Night Detection
Automatic operation for seamless performance.
- Remote Monitoring
Monitor performance and status from anywhere.
- IoT Connectivity
Ready for smart city platform integration.
- Weather Adaptive
Optimized performance in any weather condition.
- High-Efficiency Battery
LiFePO₄ battery for long life and safety.
- Extreme Durability
Built to withstand harsh environments.
- Zero Electricity Cost
100% solar powered with no grid connection.



NEXA™

SMART SOLAR BOLLARD

Elegant Landscape Lighting. Intelligent Solar Technology.

NEXA™ is ZOLARIS' premium smart solar bollard, designed to provide sustainable architectural lighting for pedestrian pathways, parks, gardens, residential communities, hotels, campuses, waterfronts, and luxury outdoor environments.

Its minimalist design combines aesthetics, durability, and intelligent energy management in one compact solution.

APPLICATIONS



INTEGRATED VERTICAL SOLAR TECHNOLOGY

Unlike conventional solar bollards, NEXA integrates high-efficiency photovoltaic panels directly into the body of the bollard.

This provides:

- ✓ Elegant appearance
- ✓ Higher vandal resistance
- ✓ Better protection against dust and dirt
- ✓ Improved long-term performance
- ✓ Greater architectural integration



SMART FEATURES

- Adaptive Smart Dimming
- High-Efficiency LiFePO₄ Battery
- Automatic Day/Night Detection
- Remote Monitoring (Optional)
- Weather Adaptive Operation
- IoT Ready
- Extremely Low Energy Consumption
- IP66 / IK10 Protection

TECHNICAL OVERVIEW

Feature	Specification
Solar Integration	Vertical Integrated PV
Battery	LiFePO ₄
Control	Smart Dimming
Protection	IP66 / IK10
Material	Aluminum / Steel
Installation	Plug & Play
Maintenance	Minimal
Design	Customizable

ADVANTAGES

- Zero Electricity Cost
- No Underground Cabling
- Quick Installation
- Elegant Architectural Design
- Long Service Life
- Sustainable Operation
- Smart Control Ready



SMALL IN SIZE.

POWERFUL IN TECHNOLOGY.

BEAUTIFUL IN EVERY LANDSCAPE.



APPLICATIONS

DESIGNED FOR EVERY ENVIRONMENT

ZOLARIS smart solar lighting systems are engineered to perform reliably across a wide range of environments, from dense urban developments to remote off-grid locations.

Every solution is optimized for performance, safety, sustainability, and architectural integration.



01

URBAN STREETS

Elegant, energy-efficient lighting for city roads, boulevards, and public spaces with intelligent control and minimal maintenance.



02

HIGHWAYS

High-output solar lighting designed for highways, intersections, bridges, and transport infrastructure where reliability is essential.



03

PARKS & GARDENS

Architectural lighting solutions that enhance public parks, green areas, and recreational spaces while preserving natural beauty.



04

RESIDENTIAL COMMUNITIES

Safe, comfortable, and sustainable lighting for gated communities, residential streets, pedestrian paths, and shared outdoor spaces.



05

AIRPORTS & TRANSPORTATION HUBS

Reliable illumination for airports, bus terminals, railway stations, and logistics facilities with continuous operation.



06

INDUSTRIAL FACILITIES

Heavy-duty smart solar lighting for factories, warehouses, industrial parks, ports, and operational zones.



07

HOTELS & RESORTS

Premium decorative lighting that complements luxury hospitality, projects, resorts, marinas, and beachfront developments.



08

REMOTE & OFF-GRID LOCATIONS

Complete energy-independent lighting solutions for remote villages, mining sites, oil & gas facilities, military bases, and infrastructure projects.

WHY OUR SYSTEMS FIT EVERY APPLICATION



ZERO
ELECTRICITY
CONSUMPTION



FAST
INSTALLATION



NO
UNDERGROUND
CABLING



SMART
ENERGY
MANAGEMENT



INTEGRATED
VERTICAL SOLAR
TECHNOLOGY



LONG-LIFE
LiFePO₄
BATTERIES



LOW
MAINTENANCE



SMART CITY
READY



CUSTOM-MADE
DESIGNS



EXTREME
WEATHER
PERFORMANCE



FROM URBAN SKYLINES TO THE WORLD'S MOST REMOTE LOCATIONS,
ZOLARIS DELIVERS INTELLIGENT LIGHTING WITHOUT LIMITS.

OUR COMMITMENT. YOUR ADVANTAGE.

ZOLARIS is committed to delivering intelligent, reliable and sustainable lighting solutions that create long-term value for our partners, communities and the environment.



PARTNER FOCUSED

Building strong, lasting relationships with our partners and clients.



QUALITY ASSURED

Engineered with precision and tested to the highest standards.



ENVIRONMENTAL RESPONSIBILITY

Promoting clean energy and reducing our carbon footprint.



DEDICATED SUPPORT

Reliable service and technical support every step of the way.

OUR SOLUTIONS



SMART SOLAR BOLLARDS

Elegant, autonomous and reliable lighting for pathways, parks and urban spaces.



SMART SOLAR LIGHTING POLES

High performance solutions for streets, parking areas and public infrastructure.



BUILT-IN LIGHTING SOLUTIONS

Integrated lighting systems with embedded solar technology for modern design.

WHERE INNOVATION MEETS RELIABILITY

Our advanced technology, rigorous testing and continuous innovation ensure consistent performance and complete peace of mind.



ADVANCED PROTECTION



LONG LASTING PERFORMANCE



LOW MAINTENANCE



TOTAL COST EFFICIENCY

BY THE NUMBERS



100% SOLAR POWERED



50,000+ HOURS LED LIFE



-30°C TO +60°C
OPERATING RANGE



IP66 / IK10
PROTECTION RATING



5+ YEARS
PRODUCT WARRANTY

CERTIFIED QUALITY



Compliant with international standards for quality, safety and environmental protection.



SMART TODAY. SUSTAINABLE TOMORROW.
TOGETHER FOR A GREENER FUTURE.



SMART LIGHTING. STRONGER BENEFITS.



CLEAN ENERGY
100% solar powered.
Zero emissions.



COST SAVINGS
No electricity bills.
Low maintenance.



RELIABLE PERFORMANCE
Engineered for all
weather conditions.



BUILT TO LAST
High efficiency battery.
Long lifespan.



KEY ADVANTAGES



EASY INSTALLATION
No trenching, no cabling,
no grid connection.



ENERGY INDEPENDENT
Operates completely
off-grid.



ADAPTIVE INTELLIGENCE
Smart control adjusts
to real-time conditions.



ALL-WEATHER READY
Performs in extreme
heat and cold.



SMART MANAGEMENT
Monitor and manage
remotely.



SUSTAINABLE FUTURE
Supporting greener cities
and communities.

PERFORMANCE YOU CAN COUNT ON



**100%
SOLAR POWERED**



**LiFePO4
BATTERY**



**-30°C TO +60°C
OPERATING RANGE**



**ENGINEERED
TO LAST**

IDEAL FOR EVERY SPACE



**HIGHWAYS
& ROADS**



PARKINGS



**PARKS &
GARDENS**



**RESIDENTIAL
AREAS**



**INDUSTRIAL
SITES**



**CAMPUSES &
INSTITUTIONS**



**AIRPORTS &
PUBLIC AREAS**



BEAUTIFUL BY DESIGN. POWERFUL BY NATURE.

ZOLARIS smart solar lighting solutions blend seamlessly into any environment, enhancing spaces by day and delivering intelligent, reliable illumination by night.

Our integrated solar technology is built inside the structure, maintaining a clean, modern look without external panels, wiring or complex installation.



**SUSTAINABLE
ENERGY**



**LOW
MAINTENANCE**



**ZERO
ELECTRICITY COST**



**SAFE &
RELIABLE**



**SMART
TECHNOLOGY**



**LONG
LIFESPAN**

BUILT FOR EVERY ENVIRONMENT



HIGH WIND RESISTANCE
Up to 180 km/h
(Category 5)



**WATER & DUST
PROTECTION**
IP66
Weatherproof



**EXTREME
TEMPERATURE**
-30°C to +60°C
Operating range



**CORROSION
RESISTANT**
Marine grade
coating & materials



**IMPACT
RESISTANT**
IK10
Vandal resistant



**SURGE
PROTECTION**
Up to 10kV
Protection



360° LIGHT

Uniform, glare-free lighting for safety and comfort.

BUILT-IN SOLAR TECHNOLOGY

Integrated solar cells inside the structure capture more energy efficiently.

INTELLIGENT CORE

Smart controller and sensors optimize performance and energy usage.

HIGH-EFFICIENCY BATTERY

Reliable power storage for all-night operation in any condition.

LIGHTING WITHOUT COMPROMISE



PARKS & GARDENS



PARKINGS



RESIDENTIAL AREAS



STREETS & HIGHWAYS

INTELLIGENT TECHNOLOGY FOR SMART CITIES



AUTOMATIC OPERATION

Dusk-to-dawn operation with adaptive brightness.



MOTION & LIGHT SENSORS

Adjust brightness based on movement and ambient light.



REMOTE MONITORING

Real-time data on energy, battery status and performance.



WEATHER ADAPTIVE

Optimized performance in extreme weather conditions.



ENERGY OPTIMIZATION

Smart algorithms extend battery life and ensure maximum efficiency.

SUSTAINABLE TODAY. BETTER TOMORROW.

By harnessing clean solar energy, ZOLARIS helps reduce carbon emissions, lower operational costs and build a more sustainable future for our cities and communities.



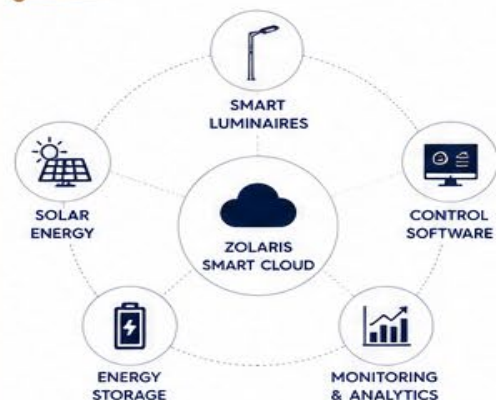
SMART SOLAR LIGHTING SYSTEMS

ONE SYSTEM.
COMPLETE CONTROL.

ZOLARIS smart solar lighting solutions are more than just luminaires. They are intelligent systems that work together to deliver maximum performance, efficiency, and reliability.

Our integrated platform connects hardware and software to provide complete control, real-time insights, and long-term value.

SYSTEM OVERVIEW



INTELLIGENT.
CONNECTED.
EFFICIENT.

A smarter way
to light the world.



REAL-TIME
MONITORING



PERFORMANCE
ANALYTICS



REMOTE
CONTROL



AUTOMATED
OPERATIONS



SECURE &
RELIABLE

SMART CONTROL SOFTWARE



- Real-time status and performance monitoring
- Remote on/off and dimming control
- Energy production and usage analytics
- Alerts and fault notifications
- Multi-site and user management

ADVANCED BATTERY SYSTEM



- LiFePO₄ Battery Technology
- High Energy Density & Long Cycle Life
- Built-in BMS for Safety
- Wide Temperature Performance (-30°C to +60°C)
- Maintenance Free & Reliable

KEY ADVANTAGES



SUSTAINABLE ENERGY
100% solar powered with zero electricity cost and zero emissions.



MAXIMUM EFFICIENCY
High-efficiency components and smart algorithms ensure optimal performance.



SMART MANAGEMENT
Remote monitoring and control from anywhere, anytime.



HIGH RELIABILITY
Advanced battery technology and weather adaptive operation.



LOW MAINTENANCE
Robust design and intelligent alerts reduce maintenance and costs.



LONG TERM VALUE
Built to last with premium materials and future-ready technology.

ADAPTIVE & AUTOMATIC OPERATION

	Daytime	Solar energy harvesting and battery charging.
	Nighttime	Automatic lighting with optimal brightness.
	Adaptive Mode	Adjusts performance based on weather and battery status.
	Smart Scheduling	Custom schedules and scenes for different needs.



INTELLIGENT SYSTEMS. CLEAN ENERGY. LIMITLESS POSSIBILITIES.
ZOLARIS SMART SOLAR LIGHTING FOR A BETTER TOMORROW.



CUSTOM SOLUTIONS FOR UNIQUE PROJECTS

Every project is different. That's why ZOLARIS Luminaire provides custom-engineered solar lighting solutions tailored to your exact requirements, environment and vision.

From design to delivery, we collaborate with you at every step to create the perfect lighting solution.



ENGINEERED
TO ORDER



TAILORED
DESIGN



FLEXIBLE
CONFIGURATION



PERFECT
PERFORMANCE

PROJECT JOURNEY



1. CONSULTATION
Understanding your
needs and site
conditions.



2. CONCEPT & DESIGN
Custom concept,
engineering and
lighting simulation.



3. SOLAR ANALYSIS
Solar calculations and
energy optimization
for maximum efficiency.



4. PROTOTYPE
Prototype development
and performance
testing.



5. PRODUCTION
Advanced manufacturing
with strict quality
control.



6. DELIVERY & INSTALLATION
Safe delivery, professional
installation and
commissioning.



7. AFTER-SALES SUPPORT
Global technical support
and maintenance
assistance.

SMART TECHNOLOGY. SMART BENEFITS.



INTEGRATED DESIGN

Vertical integrated solar
technology with sleek,
modern aesthetics and
no top-mounted panels.



HIGH PERFORMANCE BATTERIES

LiFePO₄ battery system
ensures maximum safety,
long life and reliable
performance.



AI & IOT SMART CONTROL

Intelligent control system
with real-time monitoring,
adaptive dimming and
remote management.



ALL WEATHER RELIABILITY

Engineered to perform in
extreme conditions from
-30°C to +60°C with
high durability.



MOBILE APPLICATION

User-friendly app for
monitoring, scheduling,
alerts and system
analytics.



GREEN FUTURE

100% clean energy,
zero electricity cost
and zero emissions
for a better planet.



CUSTOMIZATION POSSIBILITIES

- ✓ Pole Height & Diameter
- ✓ Solar Module Capacity
- ✓ Battery Capacity
- ✓ LED Power & Optics
- ✓ Color Temperature
- ✓ Surface Finish & Color
- ✓ Smart Control Features
- ✓ Branding & Logo
- ✓ Special Environments



★ YOUR VISION. OUR ENGINEERING. PERFECT TOGETHER.



GLOBAL EXPERIENCE. LOCAL COMMITMENT.

With successful projects in over 50 countries, ZOLARIS Luminaire brings global experience and local support to every project.

50+
COUNTRIES

500+
PROJECTS

25,000+
LIGHTING UNITS

10+
YEARS OF
EXPERIENCE



We don't just light spaces,
we power a sustainable future.



FOLLOW US



WEBSITE



COMPANY PROFILE (PDF)



LINKEDIN



CERTIFIED QUALITY



COMPLETE SOLUTIONS. ENDLESS POSSIBILITIES.

ZOLARIS Luminaire delivers more than products – we deliver complete smart solar lighting solutions from concept to commissioning and beyond.

One partner. One solution. Long-term success.



CONSULTATION & DESIGN

Understanding your needs and creating the best lighting solution.



ENGINEERING & PLANNING

Advanced engineering and photometric analysis for optimal performance.



PRODUCTION & QUALITY

State-of-the-art manufacturing with rigorous quality control.



DELIVERY & INSTALLATION

On-time delivery and professional installation support.



SMART MONITORING & CONTROL

Real-time monitoring and intelligent management from anywhere.



AFTER-SALES SERVICE & MAINTENANCE

Reliable support and maintenance for long-term peace of mind.

INTEGRATED LIGHTING SOLUTIONS

SMART SOLAR POLES



Integrated solar technology, intelligent control and sleek design for streets, highways and public areas.

SMART SOLAR BOLLARDS



Elegant and durable smart bollards for parks, pathways, residential areas and commercial spaces.

SMART CITY INFRASTRUCTURE



IoT-ready infrastructure for smart cities with data collection, monitoring and urban connectivity.

ARCHITECTURAL LIGHTING



Enhance architectural beauty with high-performance lighting solutions tailored to any design.

CUSTOM ENGINEERING



Custom-engineered solutions tailored to project requirements with full technical support and documentation.

WHY CHOOSE ZOLARIS

- ✓ 100% Solar Powered & Off-Grid
- ✓ High Efficiency & Energy Saving
- ✓ Long Lifetime & Low Maintenance
- ✓ AI & IoT Smart Technology
- ✓ All Weather Performance
- ✓ Sustainable & Environmentally Friendly
- ✓ Custom Solutions for Every Project

PROVEN PERFORMANCE

 1.2 MWh ENERGY PRODUCED DAILY (EXAMPLE)	 12.5 TON CO ₂ REDUCTION MONTHLY	 35% AVERAGE ENERGY SAVING
 99.8% SYSTEM RELIABILITY	 50,000+ HOURS LED LIFETIME	 -30°C TO +60°C OPERATING TEMPERATURE

APPLICATIONS



HIGHWAYS



PARKS



PARKING AREAS



INDUSTRIAL
FACILITIES



AIRPORTS



RESIDENTIAL
COMMUNITIES



COMMERCIAL
DEVELOPMENTS



HOTELS &
RESORTS



EDUCATION
CAMPUSES



COASTAL &
MARINE AREAS



COMMITTED TO A GREENER PLANET

ZOLARIS Luminaire invests in renewable energy to create a cleaner, smarter and sustainable future for generations to come.



RENEWABLE
ENERGY



ZERO CARBON
FOOTPRINT



SAVE ENERGY
SAVE FUTURE



SUSTAINABLE
MATERIALS



BETTER PLANET
BETTER LIFE

“ Lighting today.
Sustaining tomorrow.
Empowering the future. ”



ZOLARIS
— LUMINAIRE —



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Istanbul, Türkiye

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COMPANY PROFILE (PDF)



WEBSITE



CERTIFIED QUALITY



SMART CONTROL. MAXIMUM EFFICIENCY.

ZOLARIS Luminaire integrates advanced smart technologies to ensure optimal performance, energy savings and user comfort in every environment.



REMOTE MONITORING
Real-time monitoring of every lighting point from anywhere.



SMART DIMMING
Adaptive dimming based on time, motion, and ambient light.



FAULT ALERTS
Instant notifications and diagnostics for fast maintenance.



PERFORMANCE ANALYTICS
Data-driven insights to improve efficiency and reduce costs.



CLOUD PLATFORM
Secure cloud-based platform for centralized management.



SMART CONTROL SYSTEM ARCHITECTURE



SECURE COMMUNICATION
Encrypted data transmission for maximum security.



SCALABLE SYSTEM
Easily scalable from a single point to entire cities.



OPEN INTEGRATION
Compatible with third-party systems and APIs.



ENERGY SAVINGS
Up to 70% energy savings with smart optimization.

CONTROL AT YOUR FINGERTIPS



- ✓ Real-time system status
- ✓ Lighting point control
- ✓ Energy consumption tracking
- ✓ Schedule management
- ✓ Reports & analytics
- ✓ User management
- ✓ Multi-site management

SMART FEATURES



MOTION DETECTION
Increases brightness when movement is detected.



DAYLIGHT HARVESTING
Automatically adjusts output based on natural light.



TIME SCHEDULING
Custom schedules for different times and seasons.



WEATHER ADAPTIVE
Adjusts performance according to weather conditions.



GEO-FENCING
Location-based automation and zone management.

COMPARISON: TRADITIONAL VS SMART

FEATURE	TRADITIONAL	ZOLARIS SMART
Energy Consumption	High	Low (Up to 70% saving)
Maintenance	Reactive	Proactive
Control	Manual	Remote & Automated
Monitoring	No	Real-time
Lifespan	Standard	Extended
Data & Reporting	No	Yes
Cost Efficiency	Low	High ROI



UP TO
70%
ENERGY SAVINGS



50%
LOWER MAINTENANCE
COSTS



50,000+
HOURS
LED LIFETIME



100%
REMOTE CONTROL
& MONITORING



HIGHER
EFFICIENCY
BETTER ROI



RELIABLE
SECURE
FUTURE-PROOF



100%
SOLAR POWERED



LiFePO₄
BATTERY



-30°C TO +60°C
OPERATING RANGE



ENGINEERED
TO LAST



ISO
9001:2015



RoHS
COMPLIANT



RELIABLE IN ANY CONDITION. PERFORMING EVERYWHERE.

ZOLARIS Luminaire solutions are engineered to perform in the harshest environments while maintaining maximum efficiency and visual comfort.



EXTREME TEMPERATURE RESISTANCE

Operates flawlessly in temperatures from -30°C to +60°C.



ALL WEATHER DURABILITY

IP65 / IK10 rated. Built to withstand rain, wind, dust and corrosion.



LONG LASTING PERFORMANCE

High quality components ensure up to 50,000+ hours of reliable use.



SMART ENERGY MANAGEMENT

Intelligent charging and discharging for extended battery life.

BUILT FOR REAL WORLD CONDITIONS



HIGH TEMPERATURE

☀ Up to +60°C



LOW TEMPERATURE

❄ Down to -30°C



HEAVY RAIN & STORM

☁ IP65 Protection



CORROSIVE ENVIRONMENTS

🛡 Anti-corrosion Materials

APPLICATION SPOTLIGHT



P PARKING AREAS

Safe, well-lit and cost-efficient parking solutions.



🌳 PARKS & LANDSCAPES

Enhance beauty and safety with sustainable lighting.



🛣 ROADS & HIGHWAYS

Reliable lighting for better visibility and safety.



🏢 COMMERCIAL & RESIDENTIAL

Elegant designs for modern spaces and communities.

QUALITY YOU CAN DEPEND ON



PREMIUM QUALITY COMPONENTS

Top-tier LEDs, batteries and controllers from trusted global brands.



RIGOROUS TESTING

Each product undergoes strict tests for safety, performance and durability.



INTERNATIONAL STANDARDS

Designed and manufactured in compliance with global standards. (ISO, IEC, CE, RoHS)



WARRANTY ASSURANCE

Up to 5 years warranty for complete peace of mind.



CONTINUOUS IMPROVEMENT

Committed to innovation and ongoing product development.

ENERGY SAVINGS. REAL IMPACT.



UP TO
70%
ENERGY SAVINGS
Compared to grid lighting



ZERO
ELECTRICITY COST
After installation



LOW CARBON
FOOTPRINT
Contribute to a cleaner environment



QUICK ROI
Fast payback with long-term benefits

OUR COMMITMENT

We are committed to delivering innovative, sustainable and high-performance lighting solutions that empower communities, protect the environment and build a brighter future.



SUSTAINABLE
SOLUTIONS



CUSTOMER
FOCUSED



INNOVATIVE
TECHNOLOGY



RELIABLE
PERFORMANCE



LONG-TERM
PARTNERSHIP



GLOBAL REACH.
LOCAL SUPPORT.



ZOLARIS
— LUMINAIRE —

SMART SOLAR
LIGHTING SOLUTIONS



100%
SOLAR POWERED



LiFePO₄
BATTERY



-30°C TO +60°C
OPERATING RANGE



ENGINEERED
TO LAST



SCAN TO VISIT
OUR WEBSITE

THANK YOU FOR A BRIGHTER FUTURE.

Together, we can build smarter, greener
and more sustainable communities.



LET'S LIGHT THE WAY FORWARD



SUSTAINABLE
SOLUTIONS



SMART
TECHNOLOGY



RELIABLE
PERFORMANCE



CUSTOMER
FOCUSED



GLOBAL
IMPACT

GET IN TOUCH



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-30°C TO +60°C
OPERATING RANGE

