

100 % SOLAR AND WIND-POWERED SMART STREETLIGHT

We are developing a global network of modular green energy poles powered by solar and wind, designed for off-grid use and capable of supporting various smart city functions, even in areas without grid access. This system can be managed and controlled remotely. The modular design ensures easy maintenance and repairs without needing specialized skills.

In urban areas, we upgrade traditional streetlight poles to on-grid, smart energy poles powered by solar and wind. This enhances the quality of life without altering the familiar streetscape.



Addressing Energy Grid Challenges

The poles' autonomous energy capabilities enable installation in remote areas, bypassing the limitations of traditional power grids. By harnessing solar and wind power, we offer a sustainable, multifunctional platform that supports smart city development and improves quality of life.

Remote Management

Operators can use user-friendly interfaces for remote management, including real-time monitoring and diagnostics, which minimize the need for on-site maintenance.

Modular and Flexible Design

Our energy poles are designed to easily incorporate new technologies, such as sensors from various manufacturers, allowing cities to expand and upgrade their infrastructure with minimal disruption.

Maintenance and Scalability

The modular design ensures easy, cost-effective maintenance and repairs without specialized skills, reducing downtime and supporting large-scale use.



Transforming Existing Infrastructure

Our solution upgrades traditional streetlights into smart energy hubs, enhancing urban and rural environments without changing the existing visual landscape, saving on costs and preserving aesthetics.

Environmental Monitoring & Prediction

Advanced sensors in the poles track air quality, micro-particles, temperature, humidity, and more. This enables real-time data collection and predictive analysis, improving urban planning and environmental management.

Street Lighting

These poles provide energy-efficient street lighting powered by renewable sources. High-efficiency lamp heads can be customized to meet client needs and comply with ENEC and ENEC+ standards.

Micro-Mobility and USB Charging

The poles offer charging options for micro-mobility vehicles like e-scooters and bikes, as well as USB-compatible devices, promoting eco-friendly travel and easy charging access.

Energy Storage & Sharing

Each pole can store green energy and, when connected to the grid, share its battery capacity with third parties. This dual function enables the pole to serve as both an energy producer and distributor.

Security Integration

Poles can be equipped with cameras and sensors for real-time security monitoring, enhancing public safety.

Internet Connectivity

Our poles provide wireless internet to boost connectivity in urban areas and remote locations, utilizing solutions like Starlink for expanded digital access.

Mobility Control

The system supports traffic and vehicle management, optimizing flow and promoting sustainable transportation.

