

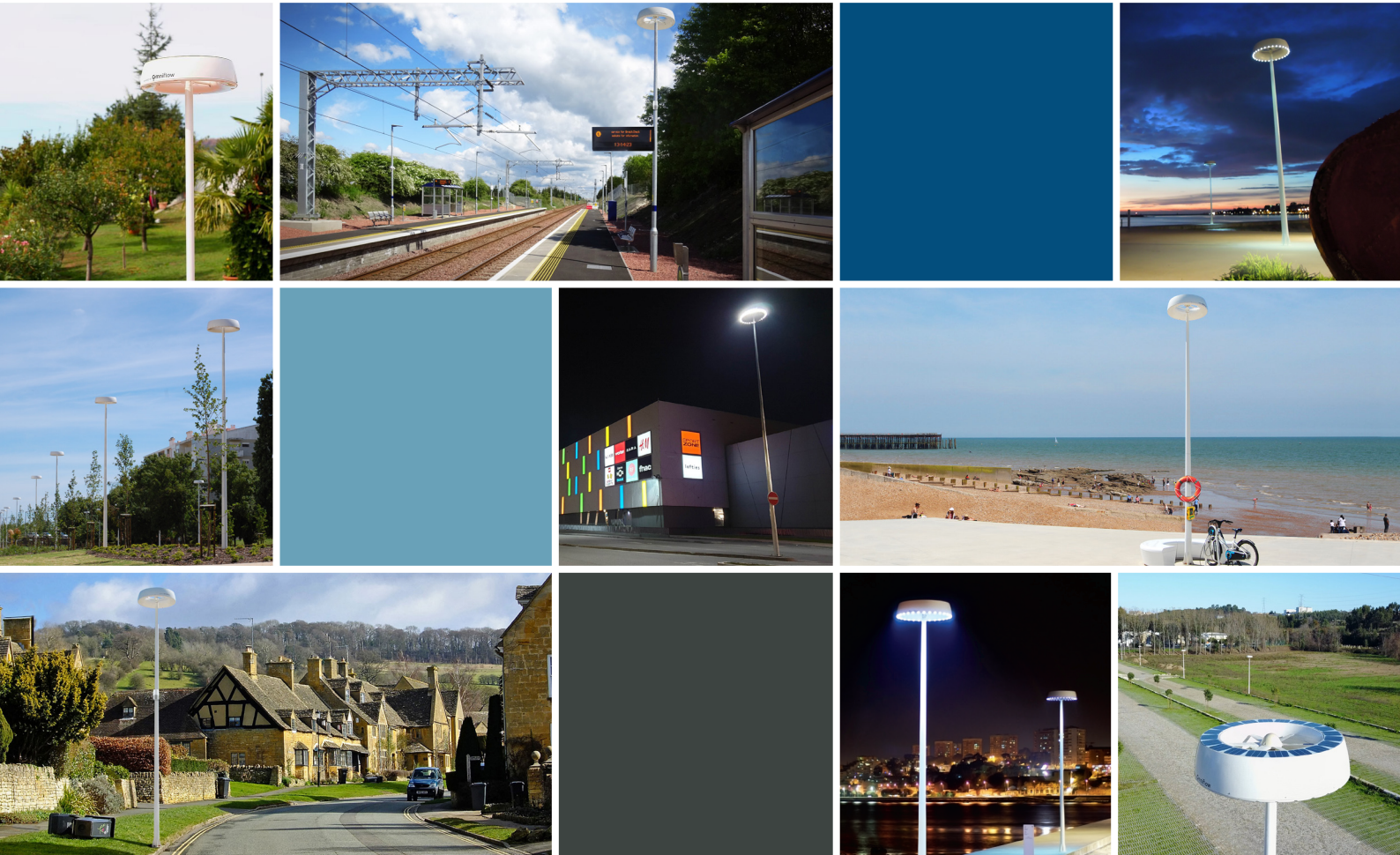


Devices & Data Connected

VIOTU

an NVT Group Company

OMNILED



Introducing our fully autonomous smart energy platform for Internet of Things (IOT)

OMNILED is a Smart Energy Platform for Internet of Things (IoT), powered by wind and solar, with built in energy storage.

OMNILED can turn renewable energy into smart lighting, surveillance and autonomous Internet of Things (IoT) services.

Its unique design blends advanced aerodynamics with a simple geometry, allowing continuous operation, even in the most rural scenarios.

PV cells cover the top surface of the design-patented shroud, while its distinctive geometry based on an inverted wing shaped aerofoil directs the free wind stream from any direction to a diffuser, thus promoting a speed up effect into a central wind turbine.

Generated energy is stored in a shroud-enclosed battery bank that serves as a platform for a number of additional services today and emerging technologies in the future. All functionalities are remotely accessible via the web based monitoring and control platform.

Summary of OMNILED's IoT applications

OMNILED is much more than a generator of renewable energy. It is a platform for multiple Internet of Things (IoT) application possibilities in one smart pole infrastructure.



SMART LIGHTING

An 8mm pole can illuminate up to a diameter of 20m!



CCTV SURVEILLANCE

Built-in cameras can monitor and record surrounding areas.



WI-FI HOTSPOTS

Provide superfast wireless internet connectivity services.



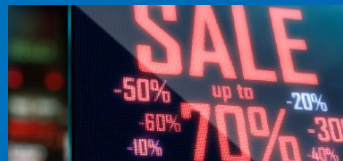
EV CHARGING STATIONS

Provide places for visitors to charge their electric vehicles.



LOCATION ANALYTICS

Traffic and pedestrian counts for operational and marketing metrics.



INTERACTIVE DISPLAYS

Digital screens create a medium for advertising and/or emergency messaging.



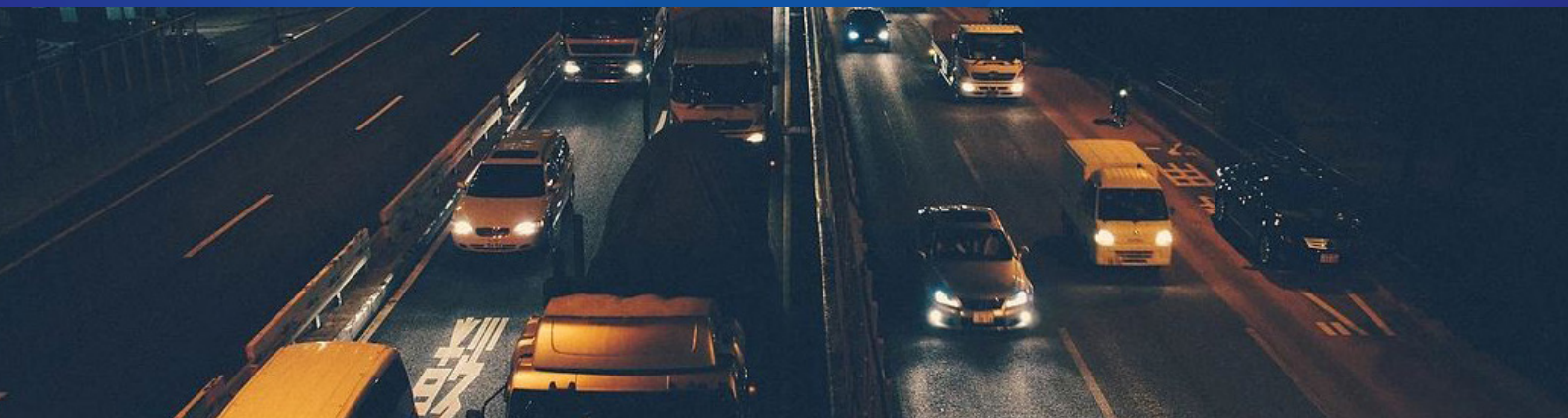
SENSOR MEASUREMENTS

Including air quality and flood monitoring sensors.



& MORE...

Talk to us to discuss your IoT requirements.



Main features of the OMNILED System

IoT Internet of Things

Solar Power

Wind Power

Energy Storage

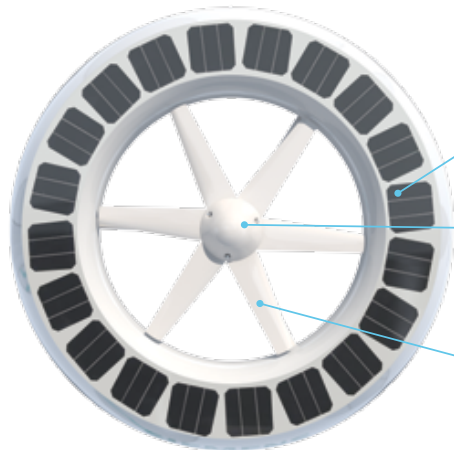
Smart Lighting

Connectivity

EV Charging

Surveillance

Wi-fi Hotspot



Solar Power

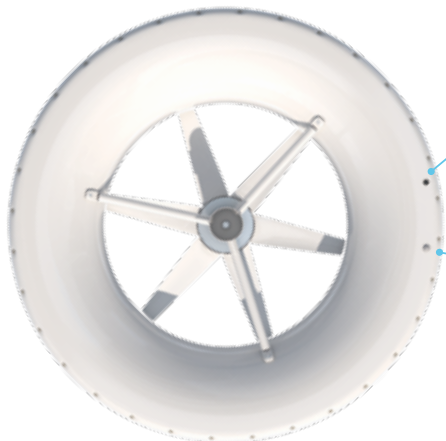
60W High Efficiency Solar Cells
23,5 % Efficiency

Direct Drive Generator

Ironless Stator Permanent Magnet

Wind Power

100W (rated @11 m/s, steady)

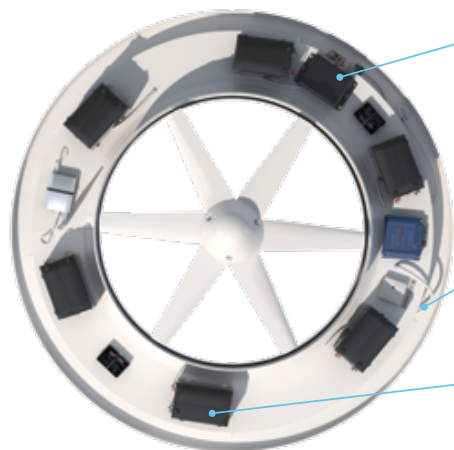


IP Security Camera

Integrated Design
Autonomous Security
Enables Smart Analytics for: Smart Parking, People Counter, etc.

Motion Sensor

Infrared sensor enables dimming feature



Omnibrain

Connectivity to internet monitoring and control

LED Lighting

State of the Art LED 170 lm/w

Built in Battery Pack

6x 12V 14 Ah Lead Crystal,
Up to 1,400 Wh Storage,
Up to 6,000 Cycles & 12 year Life Span

Worldwide OMNILED deployments



OMNILED deployments can currently be found in countries worldwide, including Portugal, Bangladesh, Brazil, Morocco, Belgium, Turkey, Australia, Colombia, Germany, U.A.E., China, U.S.A., Ireland, Italy, Mongolia and Angola.

Most importantly, OMNILED is now available to you in the United Kingdom from VIOTU Ltd.



Contact Stephen Park Brown



spb@nvt.co.uk



07919 212990

VIOTU Ltd is an NVT Group Company

NVT Group HQ, Earn House, Earn Avenue,
Righead Business Park, Bellshill, ML4 3LW

www.viotu.com



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