



WATTWAY SOLUTIONS

The global challenge of the energy transition is making renewable energy the priority if we are to achieve the goals set by the Paris international climate treaty. To meet this growing need for renewable energy, the International Energy Agency has prioritised photovoltaic technology, aiming to make solar electricity generation the world's largest energy source by 2050. However, without devoting more land to renewable energy production, existing constructed surfaces will be insufficient to meet such a large-scale roll-out.

Addressing the requirements of asset owners, Wattway photovoltaic panels can be installed on paved surfaces. This makes them one of the most innovative solutions for producing renewable energy locally by doubling up the function of traffic spaces to produce renewable energy. The panels can be integrated into existing paved surfaces, which means they can be used to further expand photovoltaic energy production worldwide. Wattway makes it possible to create sustainable infrastructure that produces renewable energy locally.

Wattway enables asset owners to think about energy differently, by pooling local resources (including energy, parking and local services). Wattway technology, developed by the Colas Group—one of the world's leading transport infrastructure companies—is one of the building blocks of tomorrow's energy mix, and is available in several variants.



wattway

by



COLAS

WE OPEN THE WAY

WATTWAY PACK

an ideal solution for making electrical equipment energy self-sufficient

Wattway Pack is a **standalone roadside electrical outlet**, which is vital in locations where the power grid is non-existent or remote, and connecting equipment to it would be complex and expensive.

The versatile Wattway system **can make any type of roadside electrical equipment energy self-sufficient**, both in urban and rural areas.

The concept is straightforward: traffic-ready photovoltaic panels fixed to the pavement surface make it possible to **produce and store renewable energy**. Then make your roadside equipment energy self-sufficient by plugging it into the Wattway Pack (recharging stations for bicycles or electric scooters, surveillance cameras, Internet-connected benches or bus shelters, animated billboards, and so on).

The Wattway Pack is a solution for local energy self-sufficiency. It is quick to install and can be incorporated into the existing paved surface, opening up the possibility of inexpensively supplying power to roadside electrical equipment.



A Wattway Pack makes the LED lights along the pedestrian walkway in front of Toa Road headquarters energy self-sufficient in the evenings
© David Michaud-Gokan KK



Grave, Netherlands
Wattway panels installed on a bicycle path produce renewable energy
© Oscar Timmers-Capa pictures



Illuminated and energy self-sufficient pedestrian crossing in Toulon © Hervé Fabre

EXAMPLES OF WATTWAY PACK USES



Environmentally-friendly mobility



Making pedestrian crossings safer



Internet-connected street furniture



Surveillance camera

SELF-POWERING

to make your buildings more energy self-sufficient

Wattway is a system that can be **installed on any paved surface, over areas between several hundred to several thousand square metres** to produce your own renewable energy locally.

The concept: photovoltaic panels installed on the paved surface produce electricity from the sun's rays. That electricity is then **fed directly into an adjacent building without any batteries for energy storage**. This system enables local **energy self-sufficiency** by doubling up the function of paved surfaces, which avoids the need to encroach on any productive space.

Wattway is a particularly useful solution **in locations where space is at a premium**.

The traffic-ready photovoltaic panels are fixed to the paved surface, which protects them from theft and strong winds. This system can also be used to **supplement the renewable energy supply at sites already equipped with conventional systems** (photovoltaic roof panels, etc.).

Wattway +



Unobtrusive integration into the existing paved surface



Energy production close to the place of consumption



Can be adapted to fit in the available space to optimise the use of the existing paved surface



Sturdy; less susceptible to vandalism



Limits the environmental impact - no encroaching on additional land

WATTWAY AROUND THE WORLD



Oyama, Japan | Local self-powering

18 Wattway photovoltaic panels produce some of the electricity consumed by the adjacent training building.

© David Michaud-Gokan KK

Montpellier, France | Wattway Pack

Installed on the surface of a bicycle path, Wattway photovoltaic panels make a traffic monitoring camera energy self-sufficient 24/7.

© Hervé Fabre



Perpignan, France | Wattway Pack

The six panels installed on the pavement make the four charging stations for electric bikes energy self-sufficient.

© Hervé Fabre

Thorn Turn, England | Local self-powering

216 photovoltaic panels (installed capacity 27 kWp) on the surface of the Thorn Turn recycling centre car park supply some of the building's energy needs.

© Pictures55

