PHILIPS

Professional lighting

Roads and streets

Case study

Improving lives across Thailand with
LED lighting solutions

New possibilities empowered by LED road lighting

LED

Location
Thailand
....

Philips products
GreenVision Xceed
GreenVision Flexi
GreenVision Mini (Solar)
Master LEDtube
Gen 5 LEDbulb
....

From rural areas to the city, inland to the coast, Thailand is undergoing tremendous transformation and Philips LED lighting is playing a part to help create safer and brighter paths for the country.

Bhumibol Dam, Tak

Background

Spreading across an area of over 500,000 km², Thailand is a fast developing country with diverse needs and rising opportunities. As its economy develops, large scale infrastructural works are implemented across the country, including roads construction and improvements to enhance accessibility. With accessibility addressed, there is a need to ensure road safety and optimal visibility, and this is why quality road lighting is essential for its people. As a country where tourism contributes to more than 10% of its GDP annually, safety is also paramount at all times for the benefit of business and leisure visitors.

" After we switched to Philips LED road lights, the energy consumption fell by 70%. **This means the hydropower generated at our dams can be used more productively.**"

Mr. Taeng Mo
Engineer, E-GAT
(Energy Generating Authority of Thailand), Bhumibol Dam

Bhumibol Dam, Tak

Thailand

- Bhumibol Dam at Tak
- Pathum Tani
- Ko Samui Surat Thani
- Phuket
- Pattani
- Yara
- Narathiwat

Bhumibol Dam, Tak

Phuket

Over 30,000 Philips road luminaires have been installed in 7 provinces across the country and beyond.

" With the new Philips LED lights installed, it makes the roads less dangerous and visibility much better for tourists and drivers. This means the hydropower generated at our dams can be used more productively."

Mr. Suriya
Tuk tuk driver

The Project

Philips Lighting Thailand team has worked with multiple local authorities to swiftly execute the switching out of old sodium or neon lights and installed energy-efficient LED road lights in 7 provinces across the country and beyond. These areas include Pattani, Yala and Narathiwat region in the South, to the popular resort province of Phuket, right up to Pathum Tani province to the north of Bangkok and the hydro-electric dams across Thailand.

Over 30,000 Philips road luminaires have been installed across these provinces, with 4,000 of them being solar-paired GreenVision Mini and Xceed LED luminaires, installed in the southern district. LED road lights are robust and long-lasting, providing the enhanced brightness and visibility needed by motorists, residents and military check points alike, always safeguarding the interest of the local communities.

In the famous resort areas of Phuket and Ko Samui, over 9,000 GreenVision Flexi LED road lights have been installed along major roads and coastal roads. Some stretches of roads in these areas remain un-lit, and these narrow and winding roads can especially be dangerous for coach buses, tuk-tuk drivers and motorcyclists. The new LED road lights are observably brighter and whiter, with wider beam angles to cast more uniformly distributed light. This improves overall visibility and enhances road safety.

Solar and non-solar paired versions installed

GreenVision Xceed

GreenVision Flexi

GreenVision Mini (Solar)

Master LEDtube

Gen 5 LEDbulb

Phuket
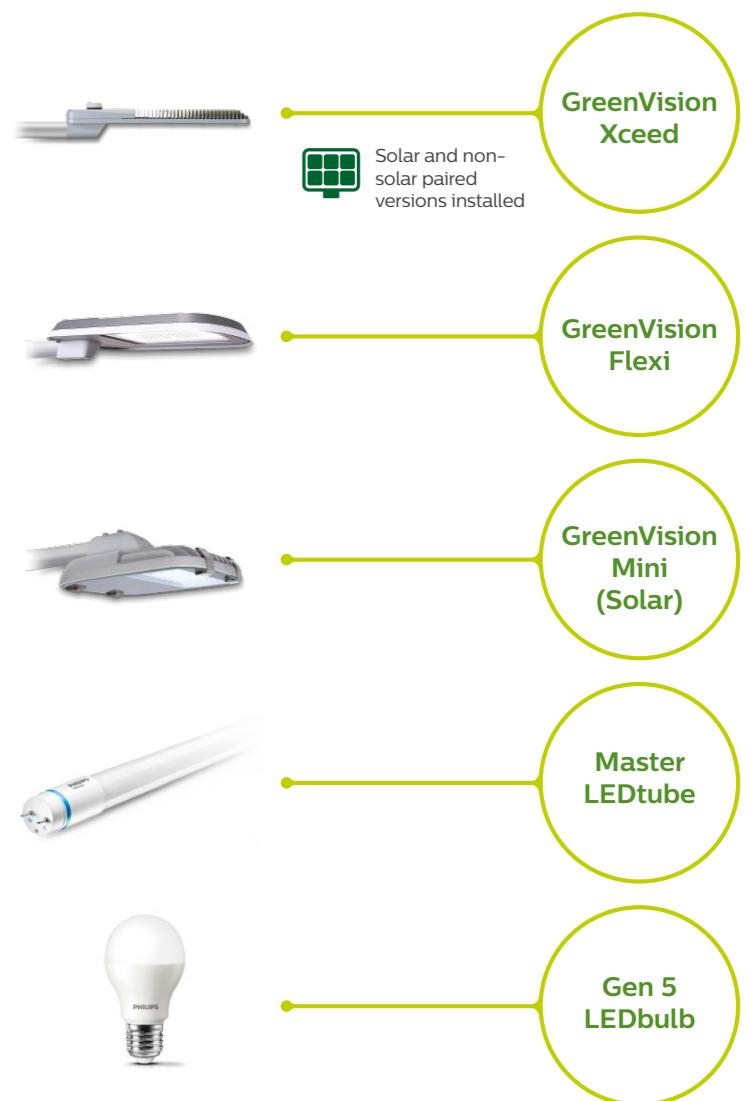
"I am on the roads as early as 3am on some mornings, and the white LED lights are there to keep me safe. And with the new Master LED tubes and LED bulbs installed at my house, **they no longer attract flying insects like fluorescents! The difference is simply amazing.**"

Farmer Too
Farm owner, Pathum Tani
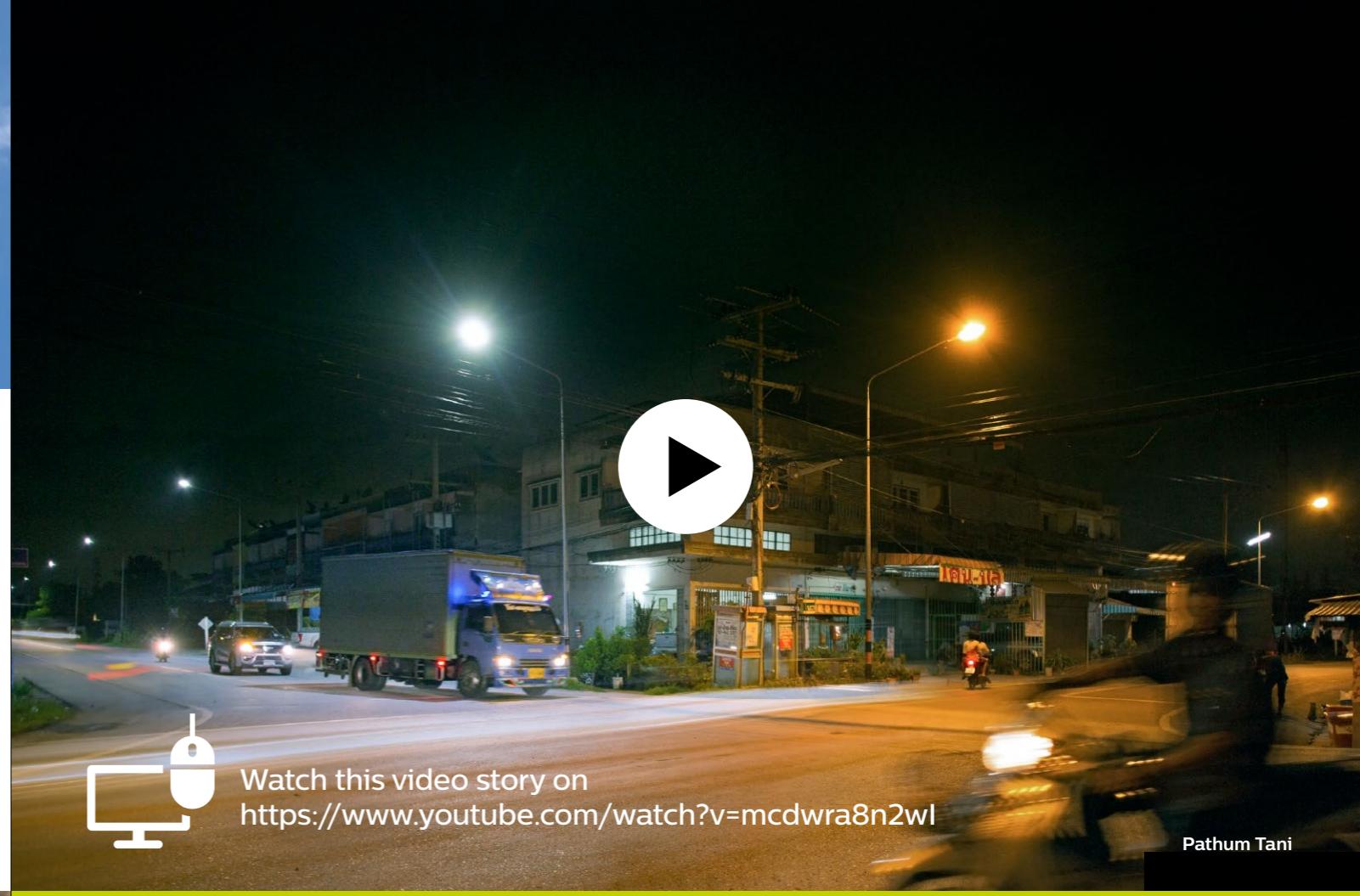
Watch this video story on
https://www.youtube.com/watch?v=mcdwra8n2wl

Pathum Tani

Ease of maintenance

Up to 70% energy savings

Eye comfort

Long-lasting and reliable

Superior light uniformity

No UV emission, less likely to attract insects
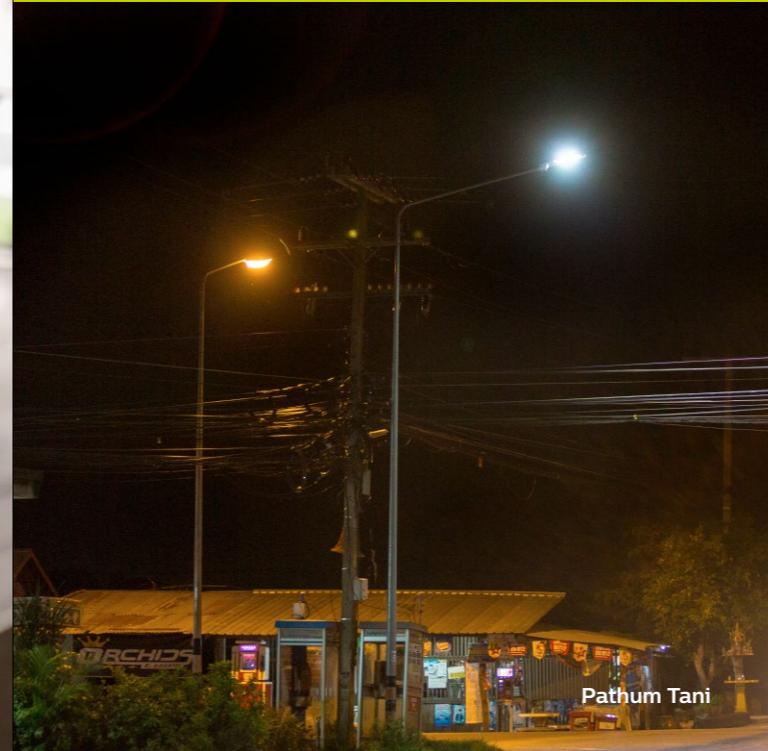
Pathum Tani

Benefits

Thailand uses over 17 billion units of energy per year and LED road luminaires are simple installations that are easy to put up and consumes low levels of energy to help enable a sustainable way forward. As E-GAT engineer Taeng Mo observed, the Philips LED road lights have helped to greatly reduce energy consumption by 70%. These advanced Philips road lights also meet the 100% cut-off criteria legislated by many countries. This means that beyond the horizontal level, all lights are cast downwards with no un-used light released to the skies, hence they do not contribute to light pollution.

In harmony with the dark skies, and also harmoniously benefiting villagers, farmers as well as motorists in bright and comfortable ways, Philips LED lights are helping to shine the roads ahead for the people of Thailand in a sustainable and responsible way.

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http://www.lighting.philips.co.th/systems