Signify

Hubei digital transformation project

Huanggang, China

Connected LED lighting tackles carbon emissions and sparks digital transformation

Solution

Signify supplied energy-efficient Philips LED street lights and Interact connected lighting software to create a high-quality and energy-efficient connected LED lighting system, offering two-way communications on a cloud-based platform. The system enables operations teams to optimize street lighting performance and accurately measure energy usage in real time, all from a remote dashboard. The team is able to detect and act on any maintenance needs and optimize lighting behaviors to minimize costs and energy-related emissions.

BrightSites smart poles were added to the connected lighting system to deliver additional benefits to the city and its citizens. The smart poles integrate security cameras, environmental sensors, and other devices to collect city data and enable remote management and data analysis, all within a secure network. City planners can use the system data to make informed decisions on issues like urban planning, safety, and traffic management, creating a benchmark for future smart city projects.

Wi-Fi access points built into the smart poles allow citizens to stay connected throughout the city, while integrated LED screens can be used to display information such as date and time, temperature and other weather conditions, and travel information.

Project Overview

Huanggang, population 5.78million, is situated in the eastern reaches of Hubei province, China, on the banks of the Yangtze. In 2022, the city installed LED street lighting, smart poles, and a connected lighting system in Huanggang Industrial Park and along Jinmei Avenue to help digitalize the urban infrastructure, work towards achieving smart city goals, and make the area feel safer. The large-scale project is helping Hubei province to save energy costs and cut emissions.

Customer Challenge

Decision-makers in the city of Huanggang noted that operating their outdated street lighting was consuming large amounts of energy and generating too many carbon emissions. They needed to upgrade to a more energy-efficient solution to save costs and reduce the city's carbon footprint, while participating in China's national carbon emissions reduction program. They also wanted the new installation to benefit citizens, with features providing an increased feeling of safety and improved quality of life.

"Signify's smart street lighting solution not only creates a safer and more comfortable environment for staff to travel and work in Huanggang Industrial Park, but also significantly reduces lighting energy consumption and operating costs."

Shiju Xie
Director of Engineering Department, Huanggang Rongchuang Construction Investment Co., Ltd.
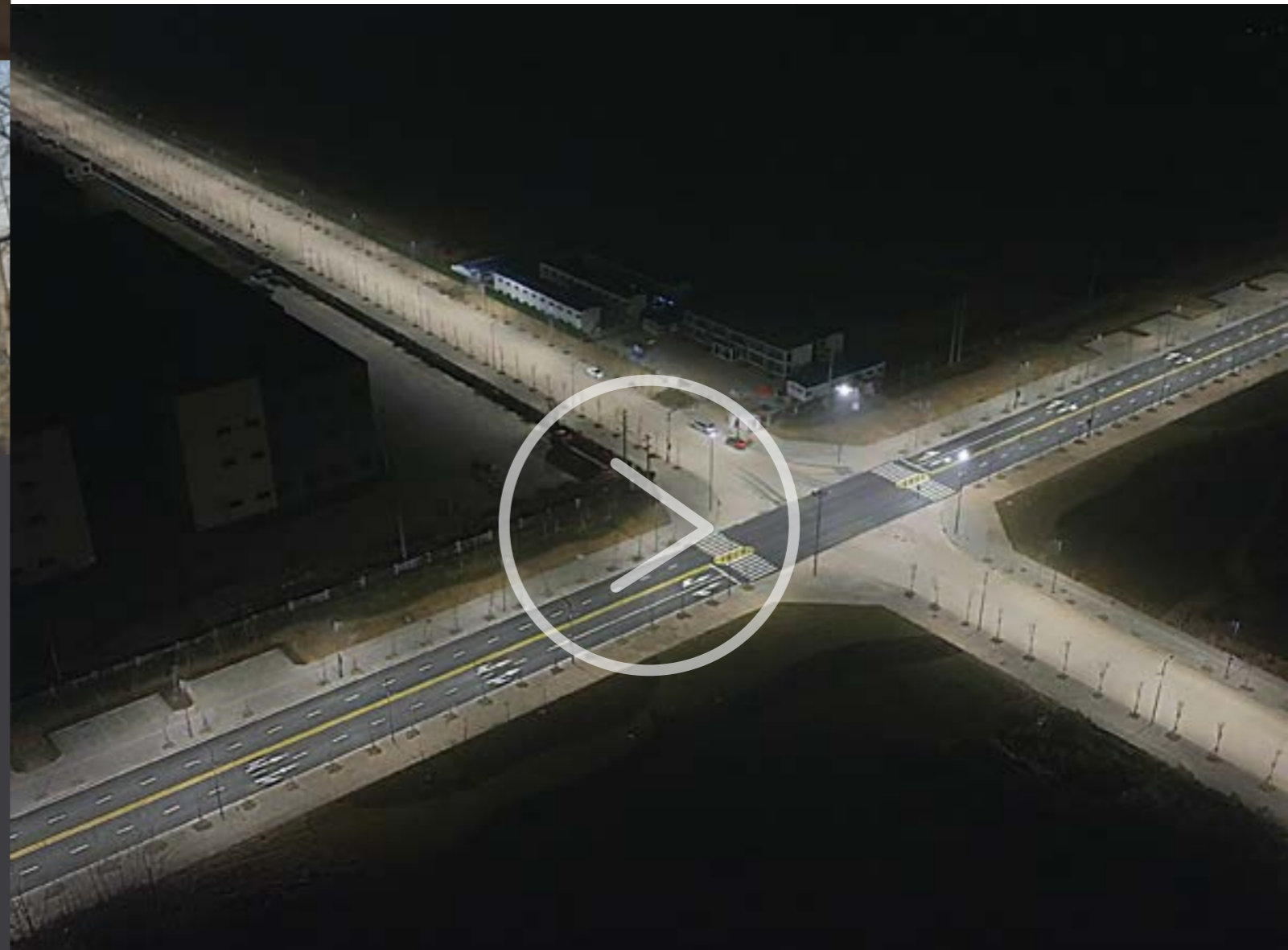
Summary

Modernizing public lighting in Huanggang Industrial Park and along Jinmei Avenue in Huanggang has helped Hubei province reduce its carbon footprint and play its part in implementing China's carbon emissions reduction program. Under China's "dual carbon" national goals, the country aims to reach peak greenhouse gas emissions by 2030 and become carbon neutral by 2060.

"Upgrading municipal lighting to LED represents one of the cheapest and fastest approaches that China is using to achieving its carbon neutral goals. The depth and scale of this project sets a benchmark for smart city construction in China."

John Wang
President of Signify Northeast Asia

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