Intelligent Streetlights

→ **Tvilight uses smart controls to adjust the illumination and energy levels of streetlights.**

ENVIRONMENTAL

The 91 million streetlights in Europe consume over 68 terawatt-hours of electricity annually. Huge reductions in GHG emissions can be realized with intelligent streetlights.

SOCIAL

Intelligent streetlights improve public safety and reduce light pollution.

ECONOMIC

*Europe's 91 million streetlights consume over $13 billion in electricity annually.*

Tvilight combines hardware, a tiny intelligent module that includes **sensors, wireless communication, and a dimmer** that can be installed on any existing dimmable streetlight, and advanced software that controls streetlights, monitors electricity usage, and analyzes traffic data. The system **detects human occupancy to control the light intensity in an area**. The lights dim during off-peak hours, but when a unit detects a pedestrian, bicycle, or automobile, the surrounding lights return to full brightness.

Why a Sustainia100 solution?
Millions of streetlights burn all night, even when there is no human activity in the area. Tvilight estimates that the Netherlands alone pays over $390 million annually on street lighting electricity, with CO2 emissions of 1.6 million tons. Tvilight's intelligent streetlights reduce electricity consumption and maintenance costs by up to 80% and 50% respectively, without compromising public safety.

The Tvilight system dims streetlights if there is no occupancy nearby. Lights then glow when traffic is detected, creating a path of light.

Developed in
The Netherlands

Deployed in The Netherlands, Ireland, Germany, UK, USA, Canada, Australia, India, United Arab Emirates
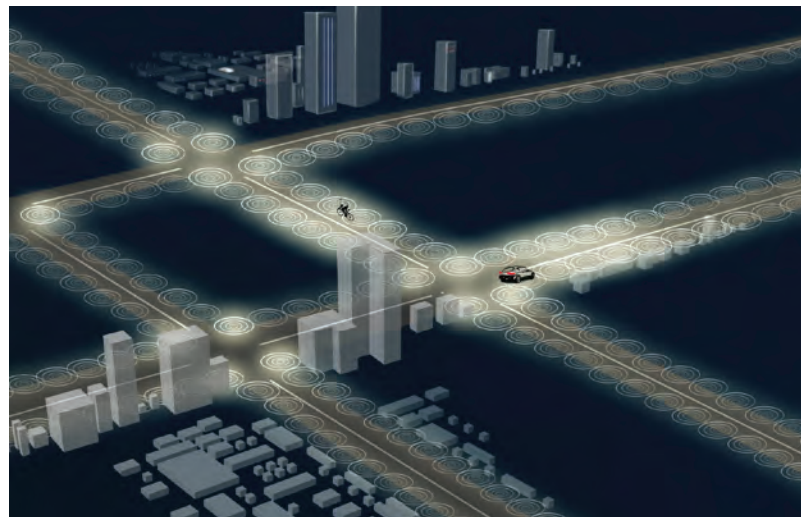
"TECHNOLOGY IS THE KEY TO SOLVE TODAY'S ENVIRONMENTAL CHALLENGES. THIS PRINCIPLE IS THE FOUNDATION OF OUR COMPANY."

CHINTAN SHAH, CEO, TVILIGHT

Solution by Tvilight