

62 Speed, Creativity, Capability;
The essential ingredients for fuelling innovation. [ASK HOW](#)

innovation lab

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STREETLIGHTS THAT ONLY LIGHT UP WHEN NEEDED



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[Tvilight \(http://www.tvilight.com/frontpage\)](http://www.tvilight.com/frontpage), based in The Netherlands is working to better an ongoing issue within Europe; their power expenditure. Research has shown that Europe spends 13 billion per annum powering street lights, which translates to 40 percent of their total energy costs. [Tvilight \(http://www.tvilight.com/frontpage\)](http://www.tvilight.com/frontpage) has made it their purpose to cut this cost by 80 percent with the product [CitySense \(http://www.tvilight.com/products\)](http://www.tvilight.com/products).

Developed through a collaboration with Delft University of Technology, CitySense uses intelligent wireless sensors paired with LED lights that work in unison to detect people, cars and bikes. During predetermined off-peak hours where there is both minimal foot and car traffic, the lights dim to a specific level. The sensor, that is compatible with existing and new street light fixtures, communicates with the lights so they adjust when a person or car has entered the precinct. The lights will change from a dull light to full brightness. *"This results in substantially reduced energy consumption in a safe and comfortable manner."*

As well as reducing costs and consumption, Tvilight is able to reduce maintenance costs of up to 50%. An inbuilt monitor notifies users of lamp failures, decay and maintenance issues via [CityManager \(http://www.tvilight.com/products\)](http://www.tvilight.com/products). CityManager is the software paired with CitySense that is used to manage the infrastructure without complication.