Tvilight’s sensor-based adaptive lighting solutions and a smart, feature-rich light management software platform enables several train stations in the Netherlands, reduce energy consumption and lower light pollution, all while ensuring public safety.

“We wanted to accomplish a few things, namely reducing energy consumption at the stations and lowering light pollution for people living in the area. At the same time, we wanted to ensure public safety. Tvilight’s solution combined this beautifully.”

Eelco Krakau, Contract Manager, Dutch Railways

**Exceptional Energy Savings & Reduction In Light Pollution with Tvilight’s Adaptive Lighting Solution**

**Reduced Energy Wastage**

With the Tvilight’s intelligent lighting solution, the lights automatically dim (to 40%) when no one is around. This enables significant energy savings and improves the lamp runtime.

**Green Railroad Stations**

Intelligent connected lighting helps these stations reduce CO2 emissions and curb light pollution, making them some of the most sustainable stations in Europe.

**Improved Safety**

As soon as any human presence is detected, Tvilight’s smart lighting system triggers all the lights around the occupant to glow at full brightness. This makes the occupants feel safe and comfortable at all times.

**Complete Remote Control**

Tvilight’s smart lighting management software, CityManager, enables the Dutch Railways to monitor, manage and control its entire lighting infrastructure remotely.

**Challenge**

Majority of the Dutch railroad stations had a regular lighting infrastructure due to which the lights were fully lit throughout the night, even when they experience limited activity. Local residents also complained about the excessive light levels and suggested to turn off lights during off-peak hours. Turning off the lights would indeed reduce energy usage, but the resulting darkness would make the stations unsafe.

**Solution**

ProRail, the Dutch railway operator, wanted a solution that could reduce the energy consumption and curb light pollution, and at the same time, provide a sense of security to the passengers and railway personnel. The railway operator wanted an intelligent, motion sensor-based lighting system that would maintain the overall safety of the stations and improve the quality of life of the locals living in the vicinity by offering an adequate light only when necessary.

**Project Details**

- **Locations**: Over 400 train stations
- **Client**: ProRail + NS
- **Application areas**: Station’s platforms, overhead structures, tunnels, parking spaces
- **Products**: CitySense, SkyLite, City Cabinet & CityManager