

dynamic light solutions





Foto: NASA







LED street light + lix.detect = intelligent, demand-oriented street light







potential



Key benefits and the answer to energy preservation

Challenge Climate goals Light pollution The cheapest energy is unused energy

- Maximum energy conservation without loss of comfort
- Substantial reduction of light pollution
- Contribution to reaching the climate goals

use case: demand driven lighting





traffic situation





seasonal differences



In Austria, energy consumption for street lights amounts to

7%

of the total energy consumption.







potential on city scale





tons of CO2 saved

potential on country / global scale



Battery charges / day





potential on country / global scale

Battery charges / year



Which solution can work and why?

Challenge

Limited energy from sun, stored in

LiFePO4 batteries

Little sun and long nights during

winter time



Solution

Dimming to save energy

Demand orientated lighting (PIR

sensor, radar based systems)

use case: off grid autonomous lighting



Number of vehicles/people that can be illuminated per night



the answer to the battery/pv challenge



Limitations of passive infrared (PIR) sensors

- High temperatures
- Low temperatures
- Limited detection range

Core benefits of radar sensors

- Temperature independent
- Quality of detection (digital signal processing and filtering)
- Excellent detection range for persons, even topped for vehicles and trucks
- Range is key for max. energy savings

technology comparison



- lix.detect is the evolutionary step after years of experience with lixtec LOD
- Fully integrated system for demand-oriented luminaire control with radar sensors and radio networking
- Compatible with any modern LED street lights through standard interfaces (DALI, 1-10V, PWM)
- Vendor independent
- Fully configurable lighting profiles
- Luminaires can be configured as single luminaires or in freely combined groups
- Plug-and-play solution, optional cloud-based management
- 100% compatible with all products of our Swiss partner CSAVe

solution





optional cloud-based management



lix.detect

•	Nomination for Global Energy Award Styria	2019
lixtec LOD		
•	iF product design award" for lixtec LOD	2013
•	Participation and top placement in state prize for innovation	2013
•	Nomination for the state prize for environment and energy technology with the title "Energy and Efficiency"	2012
•	Upper Austrian federal state prize for environment and sustainability	2012
•	Upper Austrian federal state prize for innovation	2012

lixtec awards



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