



Your all-around,  
worry-free package  
for climate  
protection.



siteco

**Light for a better environment.**  
Acting sustainably is about  
more than just saving energy.

**An initiative for the future: Lighting solutions from SITECO.**

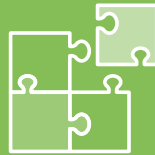
- **“Green” light:** Insect friendly, 100 % dark sky
- Modular product concepts with **exchangeable and recyclable components**
- **Targeted, needs-based light**  
for greater well-being among people and animals
- Luminaires for the whole city with **significant energy and CO<sub>2</sub> savings**

## Environmental and species conservation

Environmental protection can't remain an empty promise. This is why we also consider our environment when we develop our luminaires.

## Light emission

Light only where and in the amount that's really needed. Targeted light control and intelligent activation of our lighting help ensure that light doesn't get wasted.



## Energy and CO<sub>2</sub>

Long-term conservation of resources: Our innovative, highly efficient solutions help us make a sustainable contribution to achieving climate targets and reducing up to 90 % of CO<sub>2</sub>.

## Modular products and recycling

Our key building block in actively protecting the environment: We focus on the reusability and interchangeability of LED modules and ECGs. This generally makes it possible for 90 % of the material to be reused in the life of a new luminaire.

# Sustainable. Through and through.

For the sake of our children, we as a society must manage available resources responsibly. More than ever, long-term investments in the future are necessary – and feasible.

To save energy and CO<sub>2</sub>, many municipalities have already converted their public lighting to LED. But is that enough? Lawmakers want more: More dark sky, more environmental and species conservation, more circular economy and intelligent recycling. Your partner SITECO is happy to say that we're already taking all this into account today.

**SITECO considers sustainability in all dimensions.**



# Habitats for insects.

For people, light means safety and well-being. But what's good for city dwellers doesn't automatically have to be bad for nature and animal life. Environmental and species conservation plays a central role in the technology driving SITECO's lighting solutions. They balance the needs on both sides.

SITECO offers:  
**High protection ratings**

SITECO outdoor luminaires feature protection classes  $\geq$  IP65.  
**Insects don't stand a chance of getting inside the luminaires.**

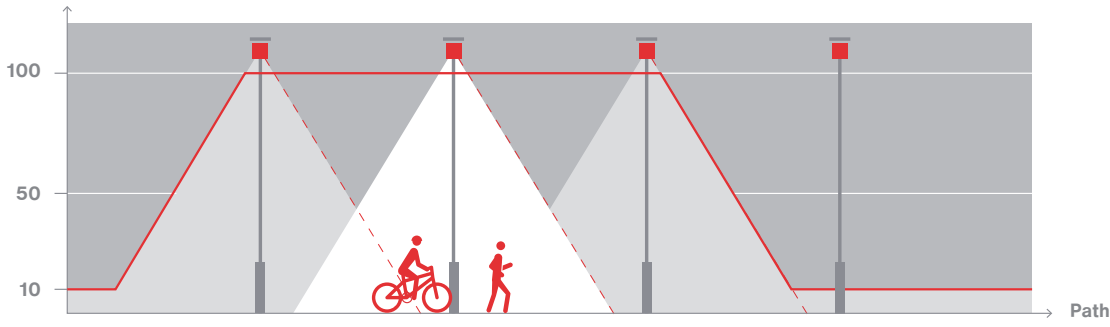
SITECO offers:  
**Warm light colors**

SITECO also offers light colors with 2.200 and 3.000 Kelvin. Because: The warmer the light color, the **the less it attracts nocturnal insects.**

SITECO luminaires can be dimmed, activated and controlled as needed. This **minimizes the impact of artificial light on the natural behavior of animals.** This approach has already been specified in DIN EN 13201.

SITECO offers:  
**Targeted lighting control**

Illuminance in %



**Light in motion makes a difference.**

To protect animals and plants, the light switches on like magic for vehicles, cyclists and pedestrians.



SITECO offers:  
**Devoid of UV and IR radiation**

Unlike conventional lighting, LED luminaires work without UV and IR radiation. SITECO luminaires **reduce the attracting effectiveness to a minimum** for nocturnal insects.

SITECO offers:  
**Low temperature development**

Superb thermal management ensures low surface temperatures with SITECO luminaires. **No more singed wings and bodies if insects** come into contact.

Environmental and species conservation



SITECO offers:

**Local planning adapted to the actual traffic situation**

Low mast heights and the lowest possible DIN lighting classes reduce the light intensity. SITECO helps you **determine the right dimensions** and avoid overplanning equipment.



SITECO offers:

**Light emission 0%**

The goal is clear: **0% light in the upper atmosphere.** And that's exactly what SITECO outdoor luminaires achieve. Their lighting technology enables them to illuminate streets and areas with exceptional precision – **no tilting, no scattered light** (ULOR 0% for technical luminaires, < 3% for individual decorative solutions).

SITECO offers:

**Glare control**

**Glare that bothers** both people and animals is **avoided** in SITECO luminaires by using such optical accessories as special covers, including back-light control and optics (full cutoff luminaires) – a proven solution, for example in residential areas.



# For a dark night sky.

Light pollution and scattered light have negative consequences: Both can create glare, illuminate the night sky, disturb people in their sleep and disrupt animals in their behavior. All the while, light emission can be completely avoided.

SITECO luminaires have always featured exceptionally precise light distribution coupled with modern control equipment. The result: Light only where and when it's wanted.

# opticalight®

SITECO offers:  
**Nanoprecise lighting for facades**

Attractive facade lighting creates an appealing aesthetic for the nighttime cityscape, lending it an unmistakable character. Working in partnership with opticalight, SITECO completes nanoprecise **modeling** of city properties **with no scattered light.**



Up to **90%** investment preservation





SITECO offers:

**Convenient separation of the main components**

SITECO luminaires' main components are neither bonded nor fastened with screws. They can be easily separated and **returned to the material cycles** – also because all materials are fully documented.

SITECO offers:

**Repair rather than discard**

LED modules, drivers, seals and covers can be easily exchanged and, in some cases, this can even be done without tools. This means repairs and upgrades are done in no time at all. **SITECO is not a disposable light.**

SITECO offers:

**Environmentally friendly production and packaging**

SITECO follows **environmental protection guidelines** for its production operations in Germany. That means: No long transport routes that stretch halfway around the globe and packaging that uses **as little plastic as possible.**

From the die-cast aluminum housing to the latest generations of LEDs that feature specially developed lighting technology: Everything about SITECO luminaires is designed with **long-lasting operation and significant CO<sub>2</sub> savings** in mind.

SITECO offers:

**Sustainable operation**

# Circular economy implemented honestly.

Is a product sustainable because it uses less energy? No, production and disposal also have to be included in the calculation. That's why we manufacture our SITECO outdoor luminaires in Germany following energy-optimized manufacturing practices that employ a sophisticated modular concept with exceptionally high recycling rates for a true circular economy. For us, this all means *Made in Germany*.



# From conventional to LED: The great leap.

LED technology is nothing new today, nevertheless a huge number of conventional luminaires can still be found in many locations. Switching to LED lighting delivers maximum savings as well as all control options and digital functions from SITECO. An it's practical, too: In many cases, a substantial portion of the luminaire infrastructure is preserved.

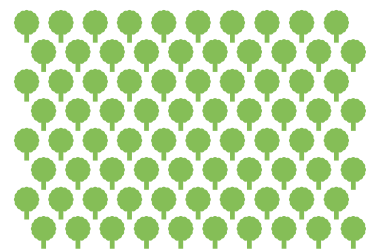
- **Low operating costs and short amortization period** thanks to maximum energy efficiency
- **Customer-specific lighting control** enables additional savings potential as well as a significant reduction in unnecessary light for the well-being of people and animals



Saving one ton of

**CO<sub>2</sub>**

... is equivalent to reforesting with 80 trees.

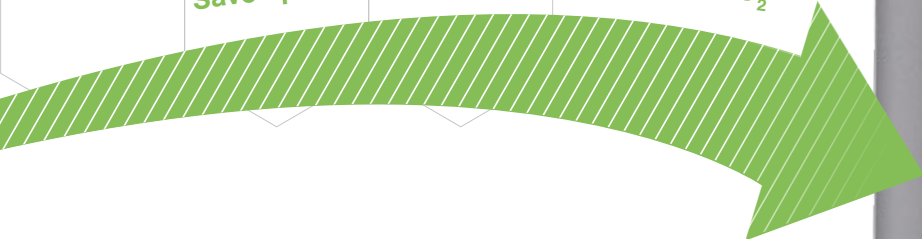


Additional decrease through **50%** nighttime reduction

SL 21 mini

Mushroom with module 540 gen. 4

Save up to **90%** energy and CO<sub>2</sub>



FL 11



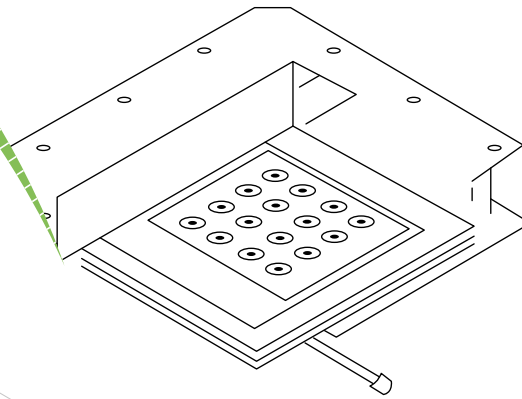
Save up to **90** %  
energy und  
CO<sub>2</sub> emissions

## Historical town centers: The past and present in harmony.

The SITECO LED refurbishment system achieves what's previously been almost impossible: Giving historical town-center luminaires highly efficient lighting in a familiar design.

And there's other benefits besides the saving: Relamping is unnecessary, fewer insects are attracted to the luminaires, and the housing needs less frequent cleaning.





- Optimized **thermal management** for reliable operation and a long service life lasting up to 100,000 hours
- Easy retrofitting and adaptation to existing luminaires thanks to flexible **mounting plates**
- Also available in the particularly **insect-friendly light color** of 2200 Kelvin
- Highly economical solution with **rapid amortization** within 2.4 years



Streetlight 10, gen. 1

Streetlight SL11 module



Mushroom luminaire with module 520

Mushroom luminaire with module 540, gen. 4

**4.5**  
years  
Until amortization

**90** %  
of the luminaires  
remain on the mast

New  
**insect-  
friendly**  
light color



Additional energy and CO<sub>2</sub> savings of up to

**74%**

Simply swap out without a data search thanks to

**plug & play**

with SITECO

Auto-Match

## From LED to LED: Update for your light

Not all LEDs are the same. A lot has happened. And lawmakers expect increasingly more than just inexpensive operation. With our modular luminaires, just a few simple steps are needed to exchange the LED module and ECG.

The result: Even more efficient light and, for example, a new insect-friendly light color.

# Our “green” outdoor luminaires



## Environmental and species conservation

- Devoid of UV and IR radiation
- High protection ratings
- Warm light colors
- Low temperature development
- Light control and intensity
- Targeted lighting control



## Light emission

- Light intensity and planning
- Light technology and inclination
- Light colors
- Glare control
- Light management



## Modular products and recycling

- Connections neither bonded nor fastened with screws
- Complete material transparency
- Easy return to the material life cycle
- LED modules, drivers, seals and covers can be easily exchanged
- Basis for quick repairs and upgrades
- Durable die-cast aluminum housing
- LED technology is exceptionally efficient and offers significant CO<sub>2</sub> savings
- Made in Germany
- Production follows environmental protection guidelines
- Reduced plastic packaging







### Energy and CO<sub>2</sub>

- Conversion from conventional technology to LED
- Module upgrade to the latest generation of LEDs



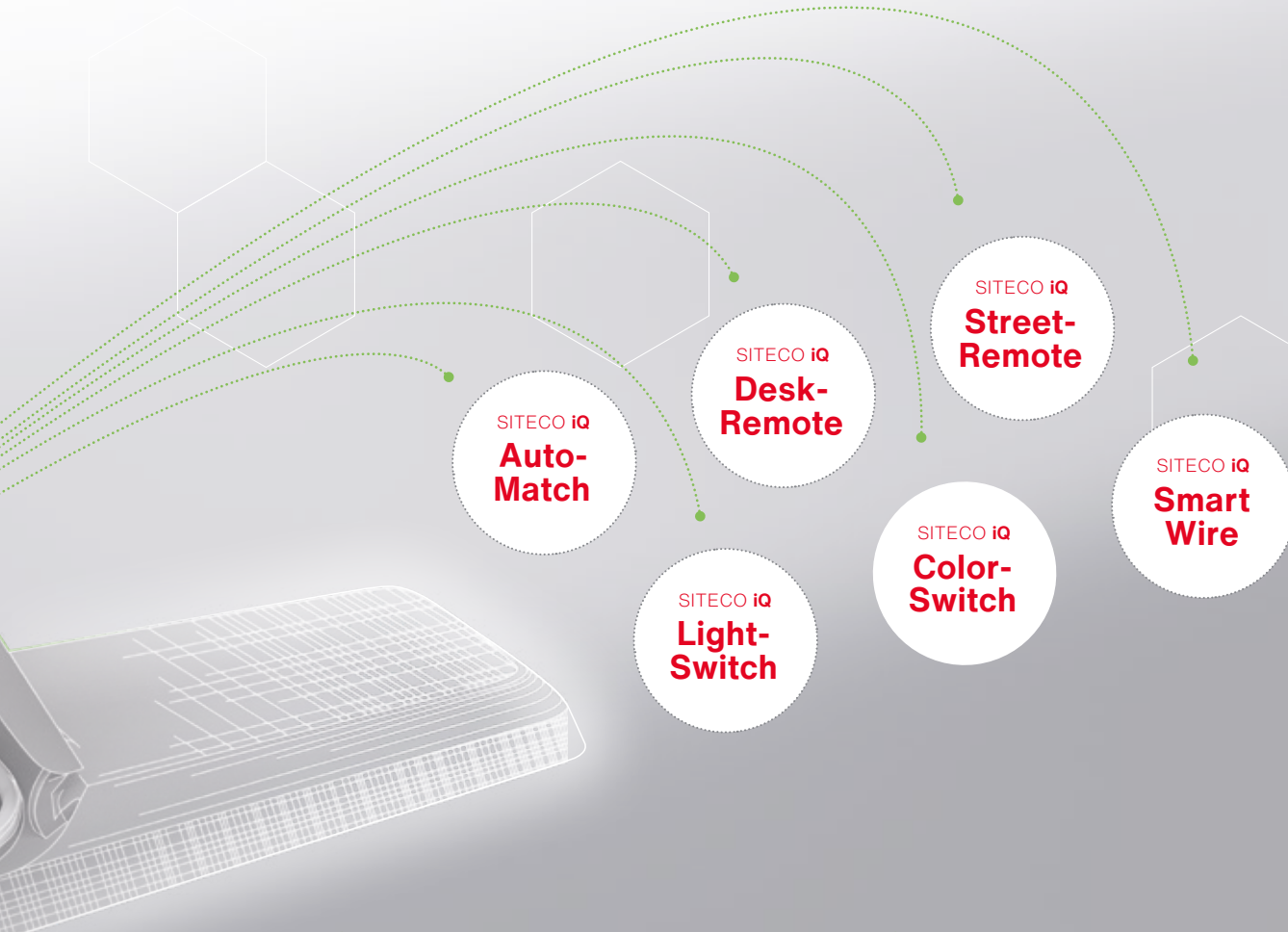
- 1 DL 20®
- 2 DL 30®
- 3 DL 50®
- 4 Bell
- 5 Urban lantern luminaires with module 540
- 6 Streetlight SL 11
- 7 Streetlight SL 21
- 8 Floodlight FL 11

# The new generation of SITECO outdoor luminaires with iQ: A quantum leap for environmentally friendly lighting.

SITECO iQ delivers the luminaire of the future right here and right now: It comes loaded with comprehensive control and diagnostic options. SITECO iQ brings sustainable digitalization to life. Experience the compelling functions of this nervous system along with its data paths.

**Your lighting: It points to the future of urban design.**





- ✓ **Environmentally friendly:** Luminaire made of recyclable materials, ECG and LED module exchangeable

✓ **Highly recyclable:** ECG and LED module neither glued nor encapsulated, making it easy to disassemble into individual components all the way to separating plastics by type

✓ **Resource-conserving:** Configuration on the mast can be done without using cherry pickers
- ✓ **Sustainable and environmentally friendly:** Intelligent functions (Light-Switch, Color-Switch, Smart Wire, CLO2.0, Night Set) make it possible to use light sensibly

✓ **Weighs less (several 100 grams):** Not encapsulating the ECG **reduces transport weight and, as a result, lowers fuel consumption when transporting**

✓ **Has a smaller CO<sub>2</sub> footprint:** Because ECGs and modules are produced in Europe, **transport distances are shorter**

# We're shaping the light and the sustainable infrastructure of the future.

The areas we're working on to help  
shape the future of tomorrow:

Continuous  
efficiency updates  
to LED luminaires  
and modules

Implementing smart  
software solutions  
in ECGs in order to  
reduce consumption

New  
environmental  
packaging  
concepts

Natural design  
for our company  
site

Flexible  
arrangements to  
work from home  
mean less commut-  
er traffic

Energy  
management:  
Optimizing our  
company's internal  
consumption  
(water, energy)

Work bike:  
Support for  
environmentally  
friendly work  
commutes

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