

# RENOVATE LIGHTING NOW

ACT SUSTAINABLY  
AND BENEFIT FROM IT



LTS

WE MAKE LIGHT  
**INNOVATIVE.**  
**EFFICIENT.**  
**CUSTOMISED.**  
**MODERN.**  
**SUSTAINABLE.**



# RENOVATING LIGHT PAYS OFF

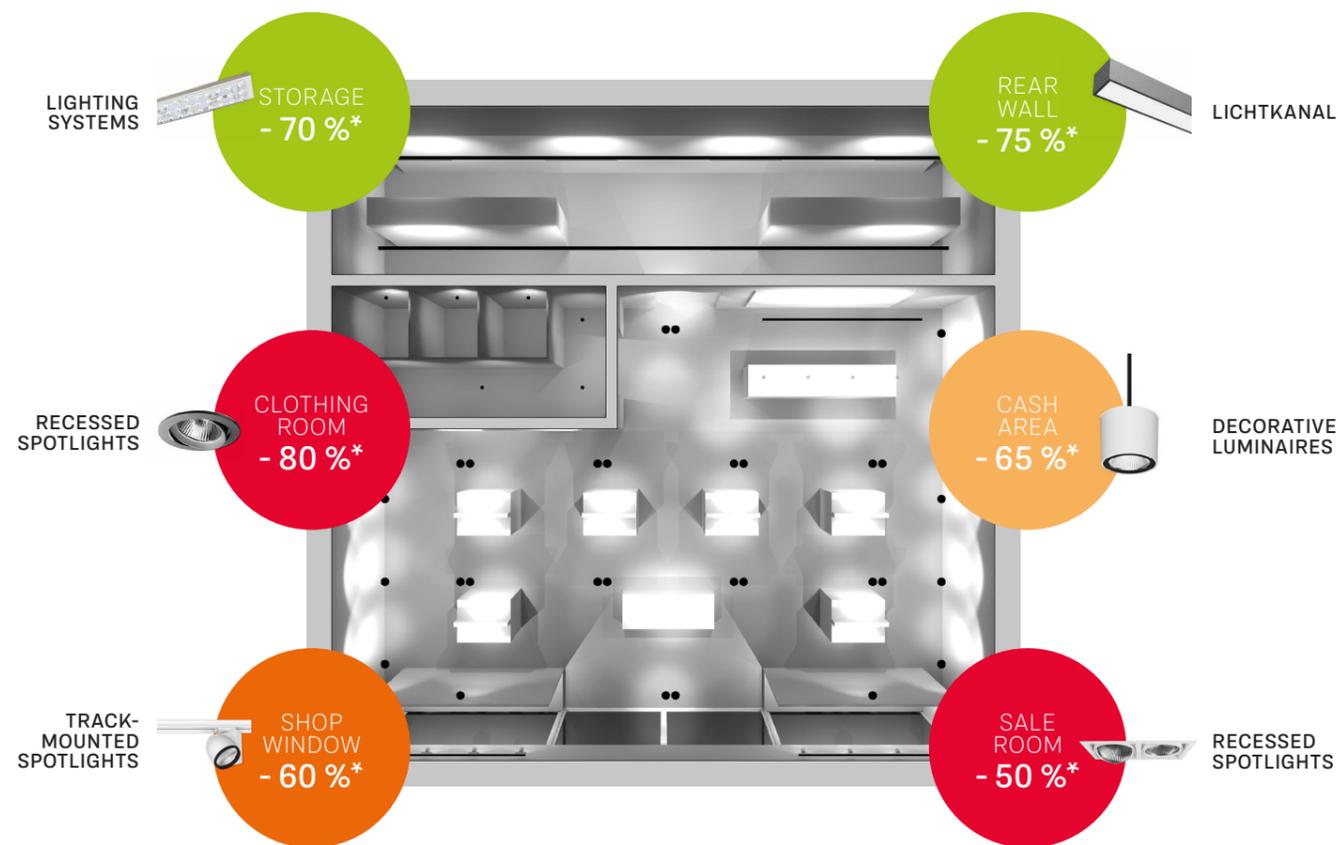
Benefit from the many advantages that a transition to modern, sustainable LED lighting brings. We, the LTS team, help you comply with the latest EU directives in due time. Renovate your existing lighting with us now. Save energy costs and get ahead of further electricity price increases.

<p><b>REDUCTION OF ENERGY COSTS</b></p> <p>of your lighting by an average of 60 %. Depending on the luminaire savings of up to over 80 % are possible</p>	<p><b>INCREASE IN EFFICIENCY</b></p> <p>by improving light quality and distribution</p>	<p><b>COMPLIANCE WITH ROHS DIRECTIVES</b></p> <p>and the EU Ecodesign Directives</p>
<p><b>SUSTAINABLE SOLUTION</b></p> <p>by installing LEDs with a long service life (50,000 operating hours, i.e., five times longer than energy-saving bulbs) and almost no maintenance costs</p>	<p><b>QUICK PAY-OFF</b></p> <p>and eligible for energy-efficient illumination funding (e.g., funding of energy-efficient buildings amounting to 15 % of the eligible investment)</p>	

# INSPIRING SPACES

## IN A NEW LIGHT

Retail illumination needs to fulfil requirements that are as varied as the possibilities offered by modern LED lighting for the design of lighting concepts. Working with a professional light designer allows you to create extraordinary spaces where your products shine in the right light and your customers enjoy spending more time. You can tell your brand story. At the same time, you can reduce your energy costs and your CO2 footprint.



\*Ca. saving for this type of luminaire

## YOUR SAVINGS POTENTIAL IN THE RETAIL SECTOR\*

LTS SOLUTION FOR YOU	LAMP POWER BEFORE	SYSTEM POWER AFTER	CONSUMPTION/COST BEFORE → AFTER	SAVINGS IN %
<b>RECESSED SPOTLIGHTS SCENE 33</b>	1x50 W HIT (CDM-T 50W)	LED 27W	5.766 kW/h → 2.780 kW/h 2.306 € → 1.112 €	- 50 %
<b>TRACK-MOUNTED SPOTLIGHTS BIXX EVO</b>	1x50 W HIT (CDM-T 50W)	LED 23W	1.537 kW/h → 632 kW/h 615 € → 253 €	- 60 %
<b>DECORATIVE LUMINAIRES ORYO PENDEL</b>	E27 60W	LED 14-20W	824 kW/h → 275 kW/h 330 € → 110 €	- 65 %
<b>LICHTKANAL LK-LED WALLWASHER</b>	1 x 54 W (T16/G5)	LED 20,3 W	1.812 kW/h → 418 kW/h 724 € → 167 €	- 75 %
<b>LIGHTING SYSTEMS ALA</b>	1 x 80 W (T16/G5)	LED 33W	2.416 kW/h → 780 kW/h 966 € → 312 €	- 70 %
<b>RECESSED SPOTLIGHTS CSA</b>	1x35 W HIT (CDM-T 35W)	LED 14W	1.922 kW/h → 336 kW/h 769 € → 135 €	- 80 %

FOR MORE INFORMATION ON THE INDIVIDUAL LUMINAIRES



## RENOVATE QUICKLY WITH LTS WITHOUT CONSTRUCTION MEASURES

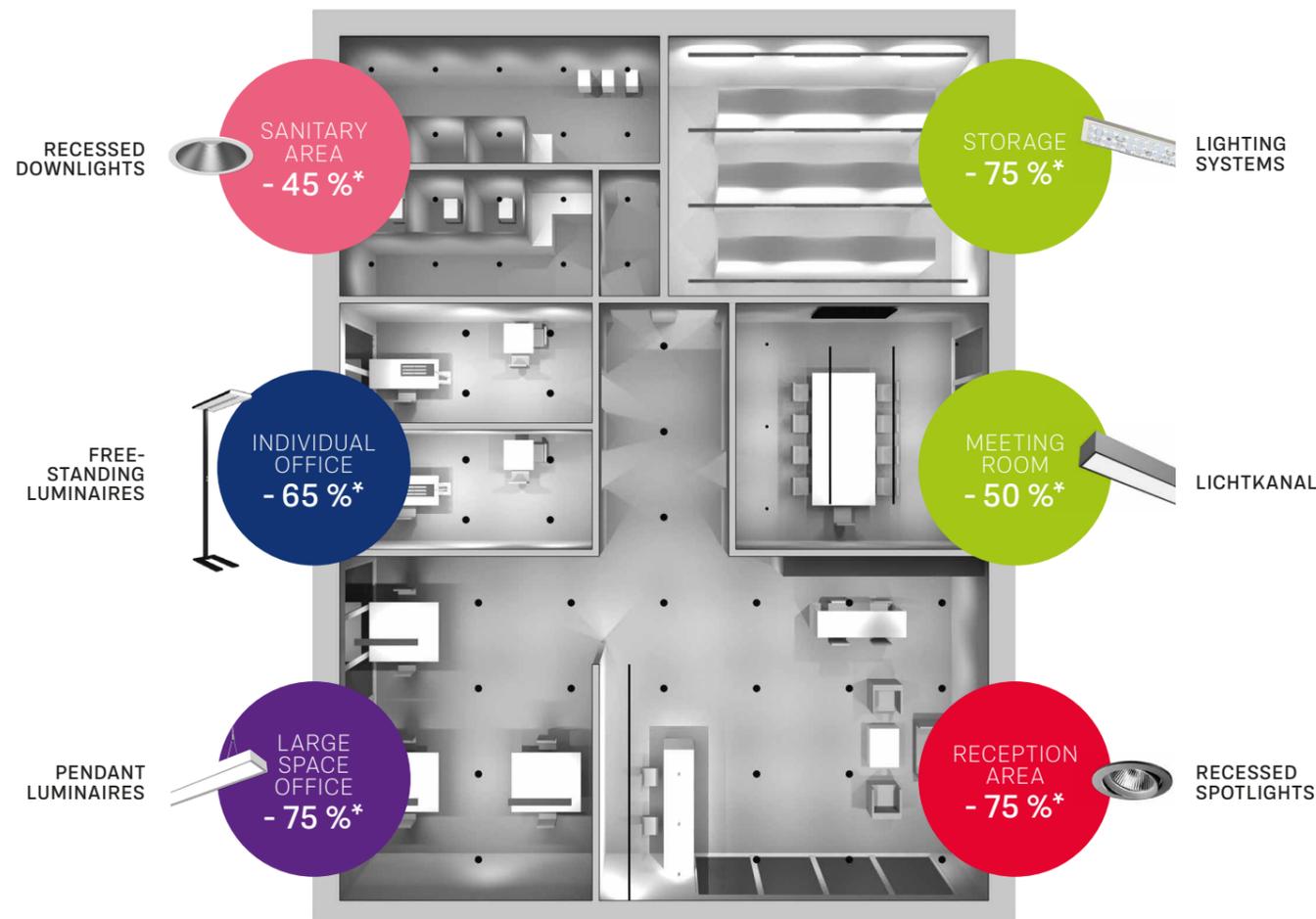
- LTS RECESSED SPOTS and DOWNLIGHTS usually fit into existing ceiling cut-outs without any construction measures. If the ceiling cut-out is too large, it can be adjusted flexibly and individually using spacer rings.
- The LTS LIGHT STRIP SYSTEM is compatible with all off-the-shelf light strip systems and designed for easy retrofitting.
- The LTS LICHTKANAL families can be easily switched to LEDs. The Lichtkanal as such remains, only the inserts are replaced. The standard feed-through wiring of the new LED lighting inserts guarantees an easy replacement.

\* The energy costs were calculated in comparison with an LTS luminaire of the conventional generation, with an average operating time and an average electricity price of 0.40€ per kWh.

# BETTER LIGHT

## FOR AN ENRICHING WORKING ENVIRONMENT

Light has a huge influence on the quality of stay and productivity in an office space. Lighting that is geared to the needs of your employees has a positive effect on their wellbeing and verifiably improves their efficiency. The offices become a space of communication, creativity and concentration. Your employees feel appreciated and fully motivated.



\*Ca. saving for this type of luminaire

## YOUR SAVINGS POTENTIAL IN THE OFFICE\*

LTS SOLUTION FOR YOU	LAMP POWER BEFORE	SYSTEM POWER AFTER	CONSUMPTION/COST BEFORE → AFTER	SAVINGS IN %
<b>RECESSED SPOTLIGHTS</b> <b>CSA</b>	1x35 W HIT (CDM-T 35W)	LED 14 W	824 kW/h → 210 kW/h 330 € → 84 €	- 75 %
<b>PENDANT LUMINAIRES</b> <b>MILA</b>	2 x 54 W (T16/G5)	LED 15,3 W	659 kW/h → 152 kW/h 264 € → 61 €	- 75 %
<b>LICHTKANAL</b> <b>LK LED</b>	1 x 54 W (T16/G5)	LED 20,3 W	899 kW/h → 455 kW/h 359 € → 182 €	- 50 %
<b>FREE-STANDING LUMINAIRES</b> <b>OPTICO</b>	4 x 55 W (TC-LEL/2G11)	LED 85,5 W	1.198 kW/h → 427 kW/h 479 € → 171 €	- 65 %
<b>LIGHTING SYSTEMS</b> <b>ALA</b>	1 x 80 W (T16/G5)	LED 33 W	3594 kW/h → 851 kW/h 1438 € → 340 €	- 75 %
<b>RECESSED DOWNLIGHTS</b> <b>LEWY</b>	2 x 18 W (TC-DEL/G24q)	LED 19,3 W	2785 kW/h → 1493 kW/h 1114 € → 597 €	- 45 %

### FOR MORE INFORMATION ON THE INDIVIDUAL LUMINAIRES



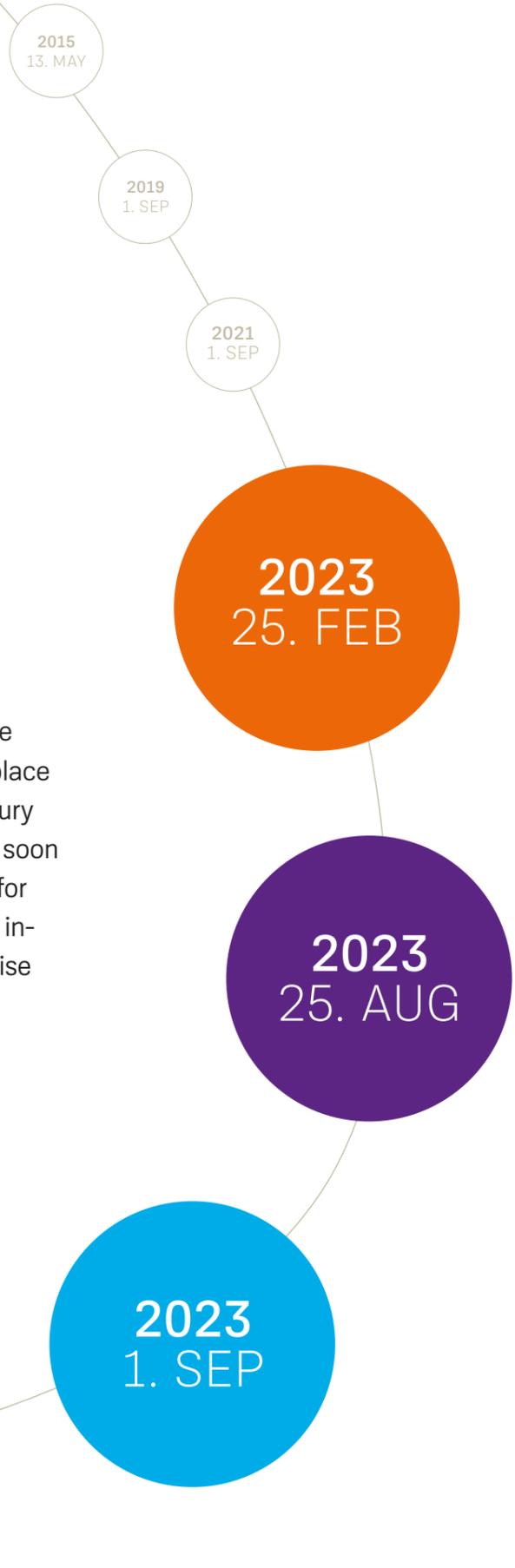
## ONLY PAY FOR THE LIGHT YOU NEED

Now take your renovation to the next level. If you combine modern LED lighting with intelligent control systems, such as Casambi or Organic Response, you will be able to further reduce energy consumption. Sensor-controlled adjustment of the lighting to the actual use of the room generates large savings potential. This leads to shorter illumination times, avoids energy waste and lowers your energy costs in the long run. Please inquire with us to find out more!

\* The energy costs were calculated in comparison with an LTS luminaire of the conventional generation, with an average operating time and an average electricity price of 0.40€ per kWh.

# TIME TO ACT

The new statutory provisions of the RoHS Directive and the EU Ecodesign Directive have put rules in place which make sure that inefficient lamps with mercury no longer enter the market. This means that it will soon no longer be possible to buy lamps or spare parts for conventional illumination. In addition, energy cost increases have recently caused operating costs to rise tremendously.



## THE NEXT PHASE-OUT DATES \* OF CONVENTIONAL LAMPS ARE SCHEDULED

PHASE-OUT DATE	TYPE OF ILLUMINANTS	DIRECTIVES
2015 13. MAY	Mercury vapor lamp banned since 13th May 2015	EU ECO-DESIGN
2019 1. SEP	Halogen reflector lamp E14, E27	
	Halogen spot lamp GU10	
2021 1. SEP	Compact fluorescent lamp with integrated ballast (E14, E27, etc.)	
	High voltage halogen lamp linear R7s > 2700 Lumen – ca. 140 W	
	Low voltage halogen lamp with reflector (GU4, GU5.3, etc.)	
	Linear fluorescent lamp T2, T12	
2023 25. FEB	Compact fluorescent lamp without integrated ballast	RoHS
	Linear fluorescent lamp Longlife T5 (T16), T8 (T26)	
	Ring shaped fluorescent lamp T5 (T16)	
2023 25. AUG	Linear fluorescent lamp T5 (T16) und T8 (T26)	EU ECO-DESIGN
	Compact fluorescent lamp Longlife	
2023 1. SEP	High voltage halogen lamp G9	EU ECO-DESIGN
	Low voltage halogen lamp G4, GY6.35	
2025 25. FEB	Ring shaped fluorescent lamp 29 mm	RoHS
2027 25. FEB	HPS high pressure sodium lamps with improved color rendering index	
	Metal halide high pressure lamps	

With our state-of-the-art, high-quality LED lamps and spotlights of the latest generation, we help you comply with the latest EU directives in due time and significantly reduce energy costs.

\* No guarantee for completeness of information

# LIGHTING RENOVATION WITH LTS

SIMPLE – CUSTOMISED – FROM A SINGLE

We, the LTS team, will support you on the complete journey to renovate your lighting: from the first consultation, on to light design, all the way to supporting you with applying for funding to finance your project. We have all lighting competences, including development and production, at our site in Tettng in the Lake Constance region. The short distances between the teams allow us to always find the most efficient solution to complete your renovation in the fastest and easiest manner: with luminaires from our standard portfolio, retrofitting sets for already existing illumination systems or customer-specific solutions.



## OPTION 01

Renovation of existing lighting solutions with a complete replacement of the luminaires



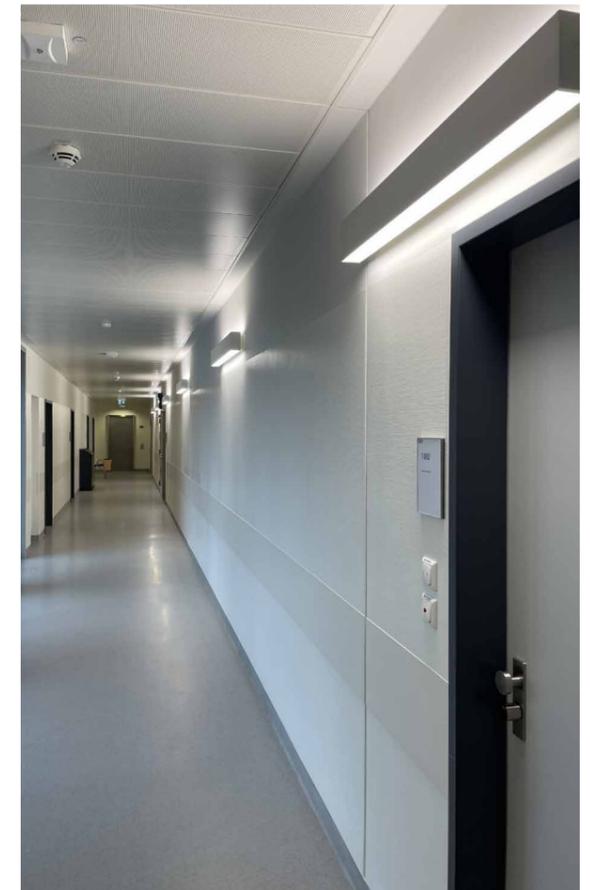
## 360 ° LTS LIGHT SERVICE FOR YOU

- Lighting experts provide personal consulting with amortisation calculation
- Customised solutions for every renovation project where standard luminaires are not an option
- Advice on funding options
- Repair services also beyond the standard warranty period
- Even an upgrade of generation-1 LED lights might pay off today.  
Do not hesitate to ask us!



## OPTION 02

Refurbishing:  
Upgrading your existing luminaires with the latest LED technology





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