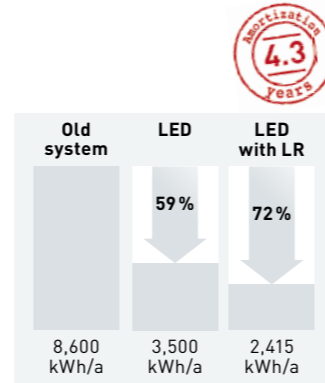


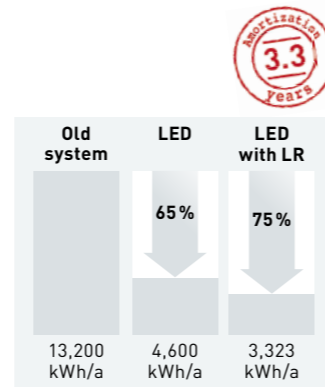
# QUICK ROI – EXEMPLARY EFFICIENCY CALCULATION

Investment costs for the conversion pay back very quickly thanks to high savings with the energy costs. The extent of savings depends on the old system and the selected conversion kit. Specific efficiency calculations enable the costs, savings and payback periods to be precisely quantified beforehand.

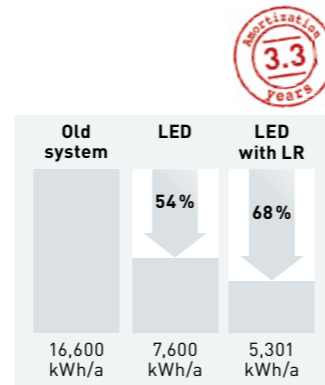
Exemplary efficiency	Old system	New system	New system with power reduction (7 h per night)
Luminaire	50 x 9701/35HIT-CE	50 x US 9701-AB2L-LR/1800-740 2G1 ET	50 x US 9701-AB2L-LR/1800-740 2G1 ET
System performance per luminaire/US	43 W	17.5 W	17.5 W
System performance total	2,150 W	875 W	875 W
Energy consumption p.a.	8,600 kWh	3,500 kWh	2,415 kWh
Energy costs p.a.	2,836,00 €	1,155,00 €	796.72 €
Energy-saving potential		59 %	72 %
Saved energy p.a.		5,100 kWh	6,185 kWh
CO <sub>2</sub> savings p.a.		2.73 t	3.3 t
Energy cost savings Ø p.a.		1,683.00 €	2,041.28 €
Amortization		5.1 years	4.3 years



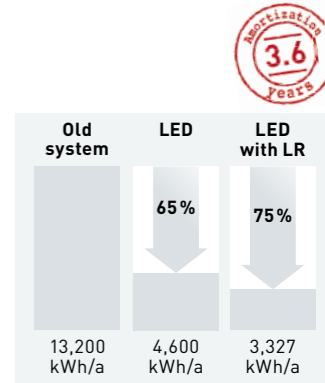
Exemplary efficiency	Old system	New system	New system with power reduction (7 h per night)
Luminaire	50 x 9701/50HST	50 x US 9701-AB2L-LR/2900-740 4G1 ET	50 x US 9701-AB2L-LR/2900-740 4G1 ET
System performance per luminaire/US	66 W	23 W	23 W
System performance total	3,300 W	1,150 W	1,150 W
Energy consumption p.a.	13,200 kWh	4,600 kWh	3,323 kWh
Energy costs p.a.	4,356.00 €	1,518.00 €	1,096.45 €
Energy-saving potential		65 %	75 %
Saved energy p.a.		8,600 kWh	9,877 kWh
CO <sub>2</sub> savings p.a.		4.6 t	5.28 t
Energy cost savings Ø p.a.		2,838.00 €	3,259.55 €
Amortization		3.8 years	3.3 years



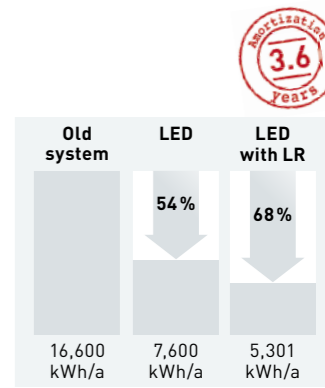
Exemplary efficiency	Old system	New system	New system with power reduction (7 h per night)
Luminaire	50 x 9701/70HST	50 x US 9701-AB2L-LR/4600-740 6G1 ET	50 x US 9701-AB2L-LR/4600-740 6G1 ET
System performance per luminaire/US	83 W	38 W	38 W
System performance total	4,150 W	1,900 W	1,900 W
Energy consumption p.a.	16,600 kWh	7,600 kWh	5,301 kWh
Energy costs p.a.	5,478,00 €	2,508.00 €	1,749.33 €
Energy-saving potential		54 %	68 %
Saved energy p.a.		9,000 kWh	11,299 kWh
CO <sub>2</sub> savings p.a.		4.81 t	6.04 t
Energy cost savings Ø p.a.		2,838.00 €	3,259.55 €
Amortization		3.8 years	3.3 years



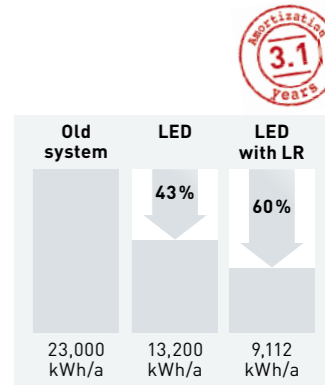
Exemplary efficiency	Old system	New system	New system with power reduction (7 h per night)
Luminaire	50 x 9711/50HST	50 x US 9711-AB7L-LR/2900-740 4G1 ET	50 x US 9711-AB7L-LR/2900-740 4G1 ET
System performance per luminaire/US	66 W	23 W	23 W
System performance total	3,300 W	1,150 W	1,150 W
Energy consumption p.a.	13,200 kWh	4,600 kWh	3,327 kWh
Energy costs p.a.	4,356.00 €	1,518.00 €	1,097.67 €
Energy-saving potential		65 %	75 %
Saved energy p.a.		8,600 kWh	9,873 kWh
CO <sub>2</sub> savings p.a.		4.6 t	5.28 t
Energy cost savings Ø p.a.		2,838.00 €	3,258.33 €
Amortization		4.1 years	3.6 years



Exemplary efficiency	Old system	New system	New system with power reduction (7 h per night)
Luminaire	50 x 9711/70HST	50 x US 9711-AB7L-LR/4600-740 6G1 ET	50 x US 9711-AB7L-LR/4600-740 6G1 ET
System performance per luminaire/US	83 W	38 W	38 W
System performance total	4,150 W	1,900 W	1,900 W
Energy consumption p.a.	16,600 kWh	7,600 kWh	5,301 kWh
Energy costs p.a.	5,478.00 €	2,508.00 €	1,749.33 €
Energy-saving potential		54 %	68 %
Saved energy p.a.		9,000 kWh	11,299 kWh
CO <sub>2</sub> savings p.a.		4.81 t	6.04 t
Energy cost savings Ø p.a.		2,970.00 €	3,728.67 €
Amortization		4.5 years	3.6 years



Exemplary efficiency	Old system	New system	New system with power reduction (7 h per night)
Luminaire	50 x 9711/100HST	50 x US 9711-AB7L-LR/7500-740 8G1 ET	50 x US 9711-AB7L-LR/7500-740 8G1 ET
System performance per luminaire/US	115 W	66 W	66 W
System performance total	5,750 W	3,300 W	3,300 W
Energy consumption p.a.	23,000 kWh	13,200 kWh	9,112 kWh
Energy costs p.a.	7,590.00 €	4,356.00 €	3,006.95 €
Energy-saving potential		43 %	60 %
Saved energy p.a.		9,800 kWh	13,888 kWh
CO <sub>2</sub> savings p.a.		5.25 t	7.44 t
Energy cost savings Ø p.a.		3,234.00 €	4,583.05 €
Amortization		4.3 years	3.1 years



Exemplary efficiency	Old system	New system	New system with power reduction (7 h per night)
Luminaire	50 x 9711/150HST	50 x US 9711-AB7L-LR/9100-740 8G1 ET	50 x US 9711-AB7L-LR/9100-740 8G1 ET
System performance per luminaire/US	170 W	78 W	78 W
System performance total	8,500 W	3,900 W	3,900 W
Energy consumption p.a.	34,000 kWh	15,600 kWh	10,746 kWh
Energy costs p.a.	11,220.00 €	5,148.00 €	3,245.94 €
Energy-saving potential		54 %	68 %
Saved energy p.a.		18,400 kWh	23,254 kWh
CO <sub>2</sub> savings p.a.		9.84 t	12.44 t
Energy cost savings Ø p.a.		5,651.73 €	7,253.79 €
Amortization		2.6 years	2.1 years

