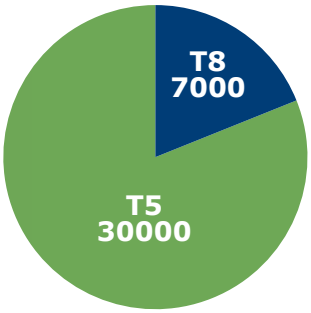
Old versus New

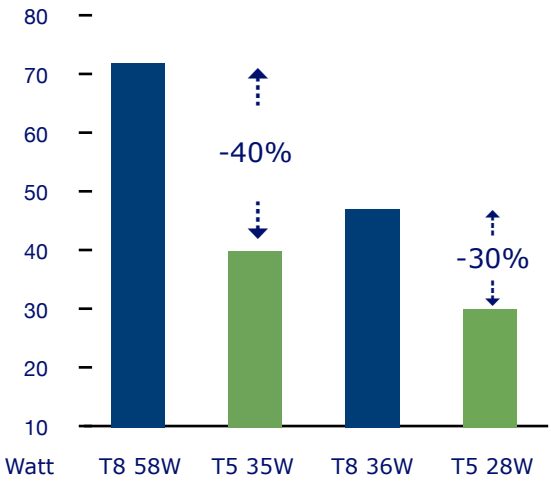
The following comparison shows the energy (cost) savings per tube, based on a normal use of 12 hours a day and 6 days a week.
In the example a 35W eco-TL adapter with a length of 1500mm is taken, other sizes are available as well.

	magnetic ballast [T8-tube]	Eco-TL adapter [T5-tube]
Tube power	58W	35W
Actual power	76W	40W
Light (lumen/watt)	89 lm/W	104 lm/W
Power factor (efficiency)	≥0,50-0,70	≥ 0,99
Length	1500mm	1500mm
Color Rendering Index (CRI)	80Ra	85-89RA
Tube Lumen Depreciation, BLD	93%	97%
Operating temperature	35℃	25℃
Lifespan of the tube	± 7.000h (2 years)	±30.000h (8 years)
Price per tube	± € 2,50	± € 3,50
Savings per tube a year	± € 0,00	± € 24,50



The circle diagram shows the difference in lifespan between T5 + eco-TL adapter and T8 tube with electro magnetic ballast.

The energy consumption of tubes with electro magnetic ballast compared to energy consumption using eco-TL adapter's with T5 tubes:



Below the operating hours of T8 tubes with electromagnetic ballast and those of T5 tubes with eco-TL adapter and their tube lumen depreciation (BLD).