



Grammar school Süderelbe, Germany

Let's save energy - now!

With a simple switch to energy efficient lighting in your school, you can make a difference

asimpleswitch.com

PHILIPS

sense and simplicity



**“I helped my school save costs
and the environment”**

Mr. Hans Verbraak (Director of primary school De Sponder, The Netherlands)



Save money and the environment – make the switch now!

Lighting consumes around 19% of all electricity worldwide. In Europe, 75% of all office lighting is still based on outdated, energy-inefficient lighting. A typical high-school building with 26 classrooms using older, less energy-efficient lighting technology could save 15,000 kg of CO₂ and € 6,500 in running costs per year by upgrading its lighting to the latest technology. Over the average lifetime of a school lighting system (15 years), this means a saving of € 115,000.

So how can you make the switch for your school?

It's simple: Philips offers a complete range of energy-saving lighting solutions. You can recognise these products by our Green Logo. Products with this logo are not only energy-efficient and reduce running costs, they also provide better quality light. It's a simple switch!



www.asimpleswitch.com

For more information on our green products and their impact on the environment, please contact your local Philips representative or visit www.asimpleswitch.com.

Under the European Energy Performance of Buildings Directive, building owners with a useful floor space of more than 1000 m² must comply with minimum energy consumption levels when refurbishing. For lighting, the norm EN15193 sets standards for the maximum annual energy consumption per square metre using the Lighting Energy Numeric Indicator (LENI).

When switching over to energy-efficient lighting for your school, you have two options:



Additional savings can be achieved by applying Lighting controls.



Simply upgrade your lamps and apply lighting controls



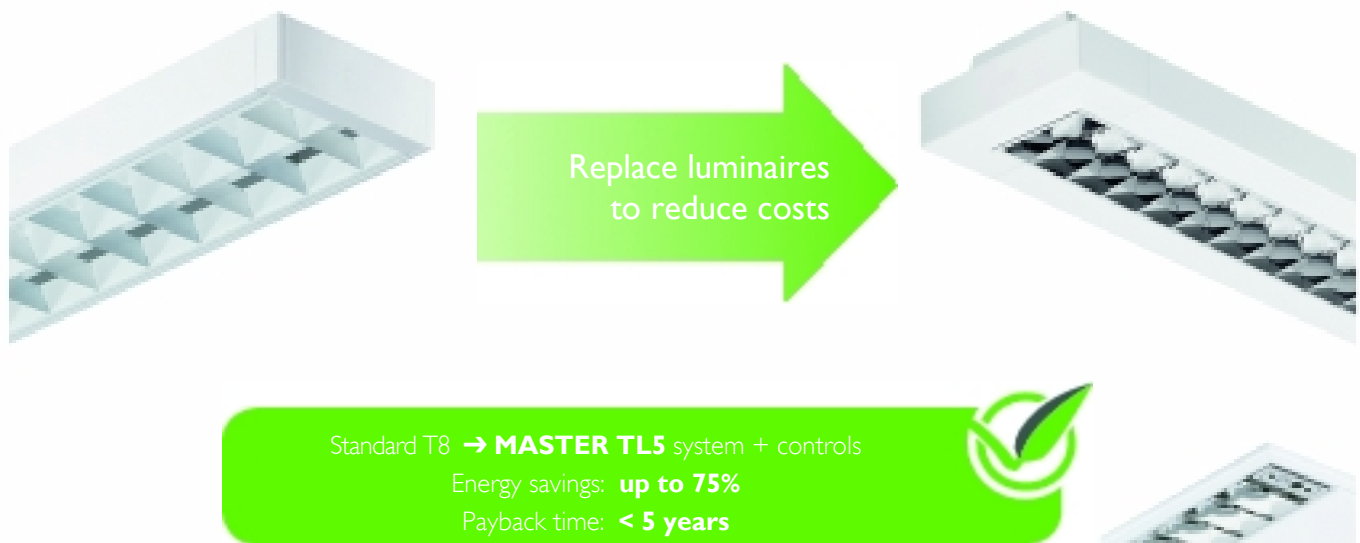
MASTER TL-D Eco – saves over 10% energy

Fluorescent lighting is the most widely used technology in the market and therefore offers major opportunities for energy saving. For example, by simply replacing your current T8 fluorescent lamps with Philips MASTER TL-D Eco, you can instantly reduce your energy consumption by over 10%.

Lighting controls for even greater savings

Additional savings can be achieved by installing lighting controls for presence detection or daylight-dependent dimming. Applying the Philips Occuswitch stand-alone movement detector, for example, allows energy savings of up to 30%. Occuswitch switches the lights off when a classroom is vacated and optionally when there is enough incident daylight as well.

Simply replace your luminaires and apply lighting controls



High energy-saving potential

Replacing your luminaires will increase your energy-saving potential. The primary savings can be made by upgrading from fittings with electromagnetic ballasts and standard TL fluorescent lamps to fittings with high-frequency (electronic) gear and TL5 fluorescent lamps. Energy savings of 30% are easily achievable, and these start immediately after installation.

EFix TL5 luminaire range – an affordable, innovative solution

The Philips EFix TL5 luminaire range is an affordable, innovative solution that offers significant energy savings when replacing conventional electromagnetic installations as well as versatility in application and ease of installation. The recessed EFix TL5 luminaires are available in square and rectangular versions to suit every application. The EFix range is also available in surface-mounted and suspended versions, making it an ideal choice for schools. All EFix families are available with a wide choice of optics – for high efficiency and maximum comfort, as well as asymmetric beams for black and whiteboards.

Lighting controls – energy savings of up to 75%

As well as incorporating energy-efficient MASTER TL5 lamps and an electronic gear, the EFix TL5 luminaire range can also be equipped with the ActiLume control for presence detection and daylight-dependent dimming. ActiLume can save up to 75% of the energy compared to older fluorescent lighting systems. Since ActiLume is part of the fitting, installation is straightforward – one simple touch of a button suffices.

Simply upgrade your lamps and apply lighting controls

MASTER TL-D Eco



Energy savings
up to **10%**

- More than 10% energy savings compared with other T8 fluorescent lamps
- Lower maintenance costs because of longer lifetime compared to standard T8 fluorescent lamps (12,000 hours service lifetime on conventional gear; 17,000 hours on electronic gear)
- Good colour rendering (Ra>80) improves lighting quality
- Optimised for indoor applications (room temperature $\geq 20\text{ }^{\circ}\text{C}$)

Occuswitch



Energy savings
up to **30%**

- Energy savings of up to 30%
- Presence detection
- Versatile stand-alone movement detector for use in any renovation project

MASTER LED



Energy savings
up to **80%**

- Up to 80% energy savings compared with halogen / incandescent lamps
- Lower maintenance costs because of 45-times-longer lifetime compared with incandescent lamps (45,000 hours)
- Good colour rendering (Ra>80) ensures good lighting quality

MASTERLine ES



Energy savings
up to **40%**

- Up to 40% energy savings compared with standard halogen lamps
- Lower maintenance costs because of 66% longer lifetime compared with standard halogen lamps (5,000 hours)
- Bright, sparkling white light with excellent colour rendering (Ra=100) ensures a comfortable ambience

Simply replace your luminaires and apply lighting controls

EFix TPS/TCS260



Energy savings
up to **35%**

- Features MASTER TL5 lamps and HF gear for energy savings of up to 35%
- Affordable, cost-effective solution
- Ease of installation ensures quick and simple replacement of luminaires

EFix TBS260



Energy savings
up to **35%**

- Features MASTER TL5 lamps and HF gear for energy savings of up to 35%
- Affordable, cost-effective solution
- Ease of installation ensures quick and simple replacement of luminaires

ActiLume



Energy savings
up to **75%**

- Energy savings of up to 75%
- Combines daylight dependent dimming with presence detection
- Integrated into the luminaire

SmartForm TBS460



Energy savings
up to **50%**

- Features MASTER TL5 lamps and HF gear for up to 50% reduction in energy consumption and CO₂ production
- Highly versatile luminaire, designed to fit in a wide range of modular ceiling types and plaster ceilings
- Luminaire can be adapted with various design elements for seamless integration into the ceiling

Luxsense



Energy savings
up to **30%**

- Energy savings up to 30%
- Daylight-dependent dimming
- Integrated into the luminaires

Fugato downlight



Energy savings
up to **50%**

- Features innovative MASTER PL-R Eco lamp and gear for energy savings (compared with PL-C lamps) of up to 50% on conventional gear and 25% on electronic gear
- Lower maintenance costs because of longer lifetime compared to standard PL-C
- Good colour rendering (Ra>80) improves lighting quality

Realized project: Lamps upgrade



Photo: Primary school De Sponder, The Netherlands

	before	after
Lamp type	T8 lamps (58 W)	MASTER TL-D Eco (51 W)
Quantity (pcs)	650	650

Savings

Cost savings on energy: 10% (approx. 1,000 Euro per year)

CO₂ savings: approx. 8,000 kg per year

Realized project: Luminaires with lighting controls



Photo: Grammar school Süderelbe, Germany

	before	after
Luminaire type	T8 luminaires with prismatic optic	EFix luminaires with TL5 lamps and ActiLume control
Quantity (pcs)	10	12 (including blackboard lighting)

Savings

Cost savings on energy: 54% (approx. 65 Euro per classroom per year)

CO₂ savings: approx. 324 kg per classroom per year

For more information: www.asimpleswitch.com

Data subject to change
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