

Commercial sector: Public services

Description

This lever adjusts improvements made to public lighting (both street lights and traffic lights) and to the efficiency of water treatment and reticulation networks.

Level 1

Water networks losses (to both theft and leaks) remains at roughly¹ 30%. Public lighting remains a mixture of High pressure sodium and metal halide lights, as well as incandescent and LED traffic lights.

Level 2

Water networks are 10% more efficient that today by 2050. All public lights are LED lights by 2050.

Level 3

Water networks are 15% more efficient that today by 2050. All public lights are LED lights by 2040.

Level 4

Water networks are 25% more efficient that today by 2050. All public lights are LED lights by 2030.



Water losses due to leakages or theft account for up to 30% of water consumption in some cases¹.
Image source: www.allianceforwaterefficiency.org



Regular incandescent traffic bulbs consume² 2170kWh's over 10 years, whereas LED bulbs will consume just 288kWh's.
Image source: www.futurelight.co.za

1. Water services development plan, City of Johannesburg Metro municipality 2012. www.dwaf.gov.za.
2. Efficiency public lighting guide , SEA 2012