

CASE STUDY



The Pfändertunnel, Austria

The road tunnel near Bregenz, Austria, on the A14 Lindau – Bludenz motorway, has been modernised in line with the latest technology. The tunnel, which entered into service in 1980, is 6,700 metres long and is used by an average of 20,000 vehicles a day. The renovations, costing in the region of 14 million euro, were completed after a mere three months of construction works. The upgrade involved a number of improvements, including new safety control technology, a new video system with digital memory system, new ventilation, illuminated hard shoulders, light walls and more light in general.

Replacement work only at night

The tunnel is equipped with around 5,000 single bulb luminaires. In the past, any failed lamps were only replaced on an as needed basis. Replacement requires several fitters and cherry pickers. Given the new safety guidelines this replacement work can now only be performed at night, involving a one-way traffic system (traffic light control).

New solution developed

In view of the new safety guidelines and to achieve cost efficiencies, as part of the modernisation of the tunnel, the operator decided on Aura Long Life fluorescent lamps. In accordance with the requirements of the tunnel operator, the Aura laboratory in Sweden, working closely with the technicians of the Pfändertunnel, developed a solution allowing flexibility of Long Life technology for different circuits, depending on the amount of traffic. The special Thermo lamps are used, which are characterised by their particularly high luminous flux at low temperatures.

So why was Aura Long Life chosen?

Utilisation of the Aura lamps and the changeover to group replacement on a rotational basis means that disruption to traffic flows in the tunnel is reduced to a minimum. "This solution delivers the efficiency needed while meeting our high safety requirements," is how Ing. Arthur Boch from the street lighting unit of the Vorarlberg provincial administration sums it up.

About Aura

Aura supplies Long Life light sources and solutions. With a lifetime that is at least three times longer, you can reduce your maintenance costs and environmental impact by a third. With our T8 Eco Saver and Eco Lighting Solutions, you can also reduce your energy consumption dramatically, thus reducing your energy costs and carbon footprint further.

