



## Outdoor lighting control

# Case study Tunnel Bistrik (Sarajevo)



Tunnel Bistrik



Old lighting



New lighting

### The lights were in a state of serious disrepair

Tunnel Bistrik (Brdo džamija) is one of the important transport routes in Sarajevo, the capital city of Bosnia and Herzegovina. There were old discharge lamps with high consumption installed there. Most lamps did not even function or were in a state of severe disrepair.

#### Tunnel Bistrik facts

Tunnel length: 155 m  
Tunnel width: 10 m  
Tunnel height: 5,5 m  
Visible exit: no  
Avg. vehicles per minute: 20

### New lighting improves the road safety

Old lighting was replaced by 78 LED luminaires with 80 W, 120 W and 200 W input power. Implementing LED replacement resulted in a 45% reduction in annual energy use costs. Additional 30% savings (total energy saving is about 75%) is delivered by SEAK lighting control, which automatically adjusts the lighting intensity to ideal values. Both safety and economy has been improved.

Operation technicians also get the possibility to manually control the intensity of lighting in different parts of the complex if necessary.

#### New Bistrik lighting

**Supplier:** LED Vision d.o.o.  
**Installation date:** 2018

#### Lights:

LV-T80 Magnus II 4K 120W 4 pcs  
LV-T80 Magnus II 4K 200W 14 pcs  
LV-T80 Magnus II 4K 80W 60 pcs

#### Lighting control:

SEAK KDR04-R1 controller  
SEAK PNT340 powerline modulator  
SEAK DIM BAR SDM110 luminaire module  
Light sensors 0-10V