

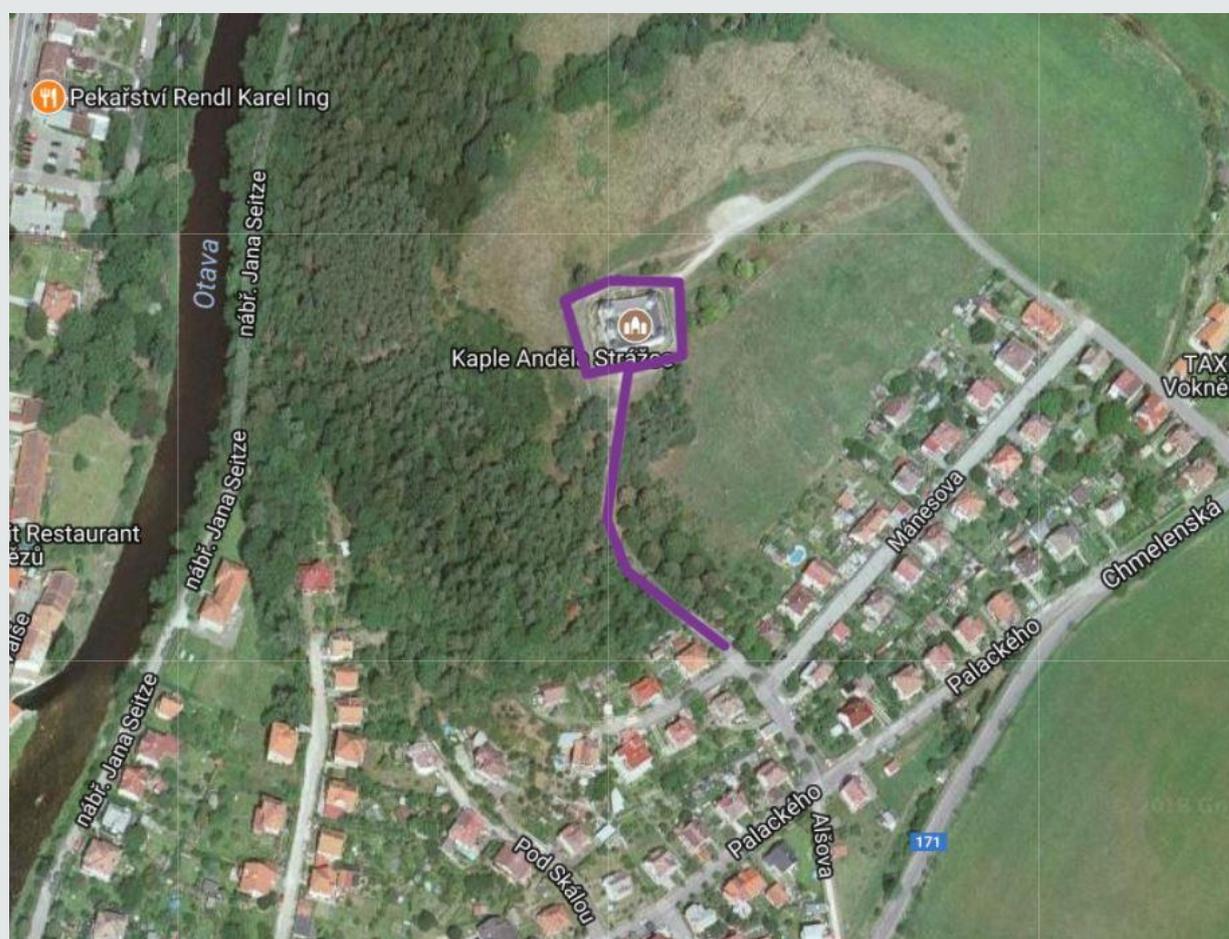
SURROUNDINGS OF CHAPEL “ANDĚL STRÁŽCE”

Pilot action factsheet

Pilot action name	Surroundings of chapel “Anděl Strážce”
Implementing organisation	Town of Sušice
Start of construction works	August/September 2018
Delivery date	December 2018

Location

Within the framework of the project, a part of the public lighting will be designed and reconstructed around the chapel of “Anděl Strážce” (picture below).



Strategic value of the selected location

Pilot areas will demonstrate dynamic lighting solutions in the context of smaller town. Existing public lighting infrastructure will be upgraded and the dynamic control of public lighting will be added. The functionality of this area is important during cultural and other events organized in the city. At the same time, the area is used for leisure time and sports (jogging, walking), usually. Adequate lighting must be at night to ensure a favorable sense of security and reduce the risk for crime.

Generally this is a great opportunity to test and implement new lighting approach which can be solutions not only to the energy efficiency criteria but also to the specific social needs such as improvement of safety and security of user of citizens and tourists. Environmentally friendly and multifunctional lights will be an example of good practice for other areas in Czech Republic.

Relevant stakeholders, stakeholder needs and social aspects

Among the key stakeholders belong the Town of Sušice, city residents and tourists. Town of Sušice is the owner of public lighting as well as the operator throughout its 100% owned and funded organization SULES.

Residents using the park are usually elderly inhabitants and children. Adults are present mostly on evenings and weekends when they are not working. Residents are experiencing issues about public lighting in personal way because they live in the town and it affects them in their daily lives. The safety of the area is very important to them.

Lighting characteristics and technical approach

Surroundings of the chapel includes part of Alšova street and the way up the stairs from Alšova Street to the chapel itself. There are 8 lighting points in the area. The overall level of illumination is insufficient, due in particular to a small number of light points. The location is used by pedestrians exclusively.

For these reasons, the following modifications are proposed:

- Installing new lighting points in around the chapel (1-3).
- Exchanging existing lighting points.
- Installation of dynamic control including the use of motion sensors.
 - In the evening, lighting intensity will depend on the presence of people, and the intensity of the light will vary from 20% to 100%.
 - Technology to change the colour spectrum (improving cultural and aesthetic design) will be used.

Expected results

The project addresses the introduction of dynamic control of public lighting systems including hardware and software components; the replacement of 8 lighting points with new LED lights and installation of approx. 3 new lighting points, including the replacement of non-compliant cable sections. The total estimated cost of the investment is € 35,000. The project will contribute to reducing of the energy intensity of public lighting in the pilot area by approx. 35 %, reducing CO2 emissions by about 1 ton/year.